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SUBJECT-MATTER INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED

FOR THE YEAR 1865.

15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

SUBJECT-MATTER INDEX

OF

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For the Year 1865.

Printed and Published by Order of the Honourable the Commissioners of Patents

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KEY OF TERMS AND PHRASES IN TITLES, &c.

	Page
Abdominal and scrotal bandages—(*see surgery*)	422
Absorbing smoke — (*see smoke*)	387
Accidents (prevention of)	1
Acetic and oxalic acids — (*see acids*)	5
Acids and vinegar	5
Actuating bells — (*see bells*)	32
Actuating signals — (*see signals*)	380
Actuating valves — (*see valves*)	437
Adhering ornaments to fabrics — (*see cemented fabrics*)	77
Adhesions and deposits,–preventing — (*see oxidation*)	289
Adjustable spanners — (*see vices*)	444
Adjusting levels — (*see compasses*)	95
Adjusting weight of carriages — (*see carriages*)	62
Adjustments and guides for machinery — (*see propelling*)	334
Administering medicines — (*see medicines*)	238
Admitting and exhausting air — (*see air supplying*)	15
Advertising	6
Adzes and hammers — (*see hammers*)	197
Aërating; aërated liquids; mineral waters; carbonic acid gas	7
Aërial machines; balloons	7
Aërial swings — (*see toys*)	433
Affixing adhesive stamps — (*see stamps*)	403
Agglomerated fuel — (*see fuel*)	162
Agitating and stirring — (*see mixing*)	263
Agricultural implements for tilling land — (*see ploughing*)	317
Agricultural implements or reapers — (*see reaping*)	362
Agricultural steam engines — (*see steam-engines*)	412
Air, gas and wind engines and mills; pneumatic motive-power	8
Air proofing, rendering impervious to air — (*see waterproof fabrics*)	448
Air supplying, blowing, exhausting; draft and ventilation	10
Alarms or signals — (*see signals*)	380
Albums and portfolios — (*see books*)	36
Alcoholic distillation, obtaining alcohol — (*see distilling*)	115
Ale, porter and cider,–brewing — (*see brewing*)	49
Alimentary substances — (*see preserving food*)	320
Alkalies, alkaline and earthy salts; salts of alumina; baryta, iodine and compounds	24
Alloys of metals, alloying metals — (*see metals*)	240
Almonds,–peeling or skinning— (*see preserving food*)	320
Alpha grass (*see plants*)	315
Alum, salts of alumina — (*see alkalies*)	24
Amalgams — (*see metals*)	240
Ammonia, salts of ammonia — (*see alkalies*)	24
Ammoniacal gas engines — (*see air engines*)	8
Ammunition or shot — (*see shot*)	376
Anæsthetics — (*see medicines*)	238
Anchors; mooring anchors	26
Anemographs — (*see thermometers*)	427
Aneroid barometers—(*see thermometers*)	427
Angle iron — (*see nails*)	276
Angles,–measuring — (*see compasses*)	95
Aniline colouring matters — (*see dyes*)	128
Animal charcoal — (*see charcoal*)	79
Animal food,–preparing and preserving — (*see preserving food*)	320
Animal oils — (*see oils from seeds*)	283
Annealing metals — (*see metals*)	240
Annealing pots — (*see retorts*)	363
Annealing wire — (*see wire*)	471
Anti-corrosives — (*see oxidation*)	289
Anti-flammable starch — (*see starch*)	404
Anvils, anvil blocks —(*see metals*)	249
Apatite — (*see manure*)	233
Apparatus for flying through the air — (*see aërial machines*)	7
Apples,–paring — (*see preserving food*)	320
Applications of glass — (*see glass*)	180
Applications of gutta-percha and india-rubber — (*see gutta-percha as applied*)	191
Applications of paper, papier-mâché, &c. — (*see paper*)	294
Applications of plants, sea-weeds, &c. — (*see plants*)	315
Applying colours to cloths, yarns, &c. — (*see dyeing*)	126
Applying springs — (*see springs*)	401
Apylying water-power — (*see waterwheels*)	450
Applying wax to threads in sewing machines — (*see sewing*)	366
Appointment indicators — (*see measuring length*)	236
Apportioning or measuring quantities — (*see measuring length*)	236
Aqueducts and viaducts — (*see bridges*)	52
Arbutus unedo — (*see plants*)	315
Arches of bridges — (*see bridges*)	52
Arching or bending wood — (*see wood*)	473
Architectural ornaments — (*see mouldings*)	274
Argand gas burners — (*gas burners*)	177
Arithmetic,–teaching of — (*see calculating*)	61
Armchairs — (*see furniture*)	171
Armour for ships and fortifications, armour plated ships — (*see fortifications*)	161
Arms and hands,–artificial — (*see surgery*)	422
Arranging or packing — (*see presses*)	322
Arresting and stopping carriages — (*see breaks*)	47
Arresting the motion of machinery— (*see governors*)	182
Arsenic, arsenical pyrites — (*see metals*)	240
Articulated railways — (*see railways*)	352
Artificial arms and hands — (*see surgery*)	422
Artificial flowers — (*see feathers*)	140
Artificial fuel — (*see fuel*)	162
Artificial gum and size — (*see starch*)	404
Artificial leather — (*see leather*)	226
Artificial light — (*see lamps*)	221

	Page
Artificial manures — (*see manure*)	233
Artificial respiration — (*see medicines*)	238
Artificial saltpetre — (*see salt*)	366
Artificial stone and marble — (*see stone*)	418
Artificial teeth — (*see dentistry*)	113
Artificial wood — (*see wood*)	473
Asbestos — (*see alkalies*)	24
Ascertaining the presence of "fixing" agents in photographs — (*see photography*)	303
Ashlar stone — (*see stone*)	418
Ashpans, ash pits — (*see fire-places*)	155
Assorting and separating — (*see sifting*)	378
Astronomical and mathematical instruments — (*see compasses*)	95
Atmospheric buffing apparatus — (*see breaks*)	47
Atmospheric changes,–indicating — (*see thermometers*)	427
Atmospheric railways — (*see railways*)	352
Attaching articles for sale in shop windows — (*see show cases*)	378
Attaching buttons to garments — (*see buttons*)	59
Attaching sails to stays and yards — (*see ships' rigging*)	374
Augers and gimlets — (*see boring*)	39
Australian grass-tree — (*see plants*)	315
Automaton lay figures for drawing — (*see copying*)	100
Avoiding production of scale or rust — (*see oxidation*)	289
Awnings and tent covers — (*see oil-cloths*)	279
Axes, adzes and picks — (*see hammers*)	197
Axles, shafts, bearings, journals, axle-boxes, packings for axles; lubricating axles, &c.	26
Bacon,–curing — (*see preserving food*)	320
Bags, baskets, sacks, holders and fastenings	30
Baking, bread making, baking powders — (*see bread*)	46
Balances or scales — (*see weighing*)	462
Bales of goods,–binding or hooping — (*see presses*)	322
Balling thread — (*see winding*)	466
Balloons and aërial machines — (*see aërial machines*)	7
Balls, dolls and toys — (*see toys*)	433
Balls or blooms of iron — (*see metals*)	240
Balls or shot for firearms — (*see shot*)	376
Balsam or resinous gum — (*see starch*)	404
Balustrades — (*see pillars*)	306
Bands and girths — (*see belts*)	33
Bands for hats — (*see hats*)	200
Bands or driving-bands — (*see straps*)	419
Bands or fastenings for hampers and baskets — (*see bags*)	30
Bankers' bills and drafts — (*see cheques*)	80
Barège,–manufacture of — (*see fabrics*)	139
Barges and ships — (*see ship-building*)	369
Barometers — (*see thermometers*)	427
Barrels and casks — (*see casks*)	70
Barrows or trucks — (*see carriages*)	62
Bars for furnaces — (*see furnaces*)	164
Bars for windows — (*see windows*)	469
Barytes, baryta and compounds — (*see alkalies*)	24
Basins and baths — (*see baths*)	31
Baskets and bags — (*see bags*)	30
Bath or flesh brushes — (*see brushes*)	53
Baths and basins; bathing appliances	31
Batteries and forts — (*see fortifications*)	161
Batting and opening fibrous substances — (*see spinning*)	393
Bayonets, daggers, sword-handles, scabbards	32
Beacons, floating lights, lighthouses — (*see buoys*)	58
Beam engines — (*see steam-engines*)	412
Beaming warps or yarns — (*see weaving*)	454
Beams or girders for buildings — (*see building*)	54
Beans and peas,–shelling — (*see preserving food*)	320
Bearing and draw springs — (*see springs*)	401
Bearings or steps — (*see axles*)	26
Beaters for thrashing-machines — (*see thrashing*)	429
Bed quilts — (*see fabrics*)	139
Beds, mattresses, bedding — (*see upholstery*)	435
Bedsteads — (*see furniture*)	171
Beer and wine,–manufacturing — (*see brewing*)	49
Beer engines or pumps — (*see pumps*)	347
Beetroot used for making sugar — (*see sugar*)	420
Bell alarms — (*see signals*)	380
Bellows and fans — (*see air-supplying*)	15
Bells; actuating bells	32
Belts, braces, girths and bands	33
Belts for driving, driving bands — (*see straps*)	419
Bench stops used for planing — (*see cutting*)	102
Bending metals — (*see metals*)	249
Bending or arching wood — (*see wood*)	473
Benzoic acid — (*see acids*)	5
Bessemer steel ingots,–casting — (*see casting metals*)	71
Beverages,–brewed and fermented — (*see brewing*)	49
Bichlorides and chlorides — (*see chlorine*)	81
Bichromates of potash — (*see alkalies*)	24
Billiards and bagatelle — (*see games*)	173
Bills and drafts,–bankers' — (*see cheques*)	80
Binding attachments for sewing-machines — (*see sewing*)	366
Binding books — (*see books*)	36
Binding grain — (*see reaping*)	362
Binding or hooping bales — (*see presses*)	322
Biscuits and pastry — (*see bread*)	46
Bits for horses — (*see harness*)	198
Bituminous distillation — (*see distilling*)	116
Bituminous oils — (*see oils of tar*)	284
Blacksmiths' forges — (*see metals*)	249
Blades of knives — (*see knives*)	219
Blanks for files — (*see files and rasps*)	145
Blasting rock — (*see mining*)	260
Bleaching and decolourising	34
Blinds or window-blinds — (*see window-blinds*)	468
Blinkers for horses — (*see harness*)	198
Blocks for anvils — (*see metals*)	249
Blocks or bricks for building — (*see bricks*)	51
Blocks used in hat making — (*see hats*)	200
Blooms or balls of iron — (*see metals*)	240
"Blow off" for steam-boilers — (*see steam-boilers*)	405
Blowing air; bellows and fans — (*see air-supplying*)	15
Blue colouring matters — (*see dyes*)	128
Boat building, repairing and cleansing — (*see ship-building*)	369
Boat propulsion — (*see propelling*)	330

	Page
Bobbin net or twist lace machines — (*see weaving*)	459
Bobbin winding — (*see winding*)	466
Bobbins and cop tubes	35
Bodices — (*see petticoats*)	301
Bogie trucks — (*see carriages*)	62
Boilers — (*see steam-boilers*)	405
Boiling milk — (*see preserving food*)	320
Bolsters used in cutlery — (*see knives*)	219
Bolting flour, bolting-reels for flour-mills — (*see grinding corn*)	185
Bolts and spikes — (*see nails*)	276
Bones, ivory and horn; carbonising bones	35
Bonnets and caps — (*see hats*)	200
Books, albums, portfolios, book covers, book slides or holders; book-binding	36
Boots, shoes, leggings, skates; cleaning boots	36
Bordering envelopes — (*see envelopes*)	137
Boring, drilling, rifling and punching; gimlets, augers and bracebits	39
Bottles and jars; stoppers, capsules and corks; stoppering, closing and opening bottles and jars; cork screws; bottle-holders	42
Bottling and decantering liquids — (*see bottles*)	42
Bows or neckties — (*see shirts*)	375
Box irons, smoothing irons — (*see mangling*)	232
Boxes, trunks, portmanteaus, letter-boxes, work-boxes, dressing-cases, canisters	44
Boxes for screw gills — (*see spinning*)	393
Boxes or cases for cartridges — (*see cartridges*)	68
Boxes or vessels for containing blacking — (*see boots*)	36
Brace looms — (*see weaving*)	460
Bracebits, augers and gimlets — (*see boring*)	39
Bracelets and necklaces — (*see jewellery*)	213
Braces — (*see belts*)	33
Bracket pillars for chandeliers — (*see lamps*)	221
Braid, braiding machines — (*see weaving*)	460
Brandy — (*see distilling*)	115
Brasses, bushes and bearings — (*see axles*)	26
Bread, biscuits and pastry; kneading-machines; baker's ovens	46
Breaking and scutching fibrous substances — (*see spinning*)	393
Breaking up or reducing minerals — (*see grinding minerals*)	186
Breaks, skids and buffers for carriages and railways	47
Breaks for machinery — (*see governors*)	182
Breakwaters and piers — (*see docks*)	117
Breech-loaders — (*see fire-arms*)	149
Brewing, fermenting, manufacturing and treating beer, wine, &c.; yeast; treating malt and hops	49
Bricks, tiles and building blocks	51
Bridges, viaducts and aqueducts	52
Bridles and reins — (*see harness*)	198
Broad looms — (*see weaving*)	455
Bronzing by electricity — (*see electro-plating*)	135
Brooches, lockets and solitaires — (*see jewellery*)	213
Brooms and brushes — (*see brushes*)	53
Bruising straw and other vegetable fibrous substances — (*see food for cattle*)	160
Brushes and brooms	53
Brushing hair by machinery — (*see hair-dressing*)	196
Buckets and pails — (*see cisterns*)	81
Buckles — (*see buttons*)	59
Buffers and carriage breaks — (*see breaks*)	47
Building, plastering, flooring and roofing; walls, ceilings and cornices; tents; ladders	54
Building blocks — (*see bricks*)	51
Building or stopping up boilers — (*see steam-boilers*)	405
Building ships and boats — (*see ship-building*)	369
Bullets — (*see shot*)	376
Bungs and corks — (*see cork*)	101
Bunkers, butts or tanks for water — (*see cisterns*)	81
Bunsens' burners — (*see gas-burners*)	177
Buoys, swimming belts, dresses and apparatus; buoying and diving; preserving life and property in case of shipwreck; marine lights	58
Burglar proof safes — (*see locks*)	228
Burglary alarms — (*see signals*)	380
Burling woven fabrics — (*see finishing*)	147
Burners for lamps, burning gas — (*see gas burners*)	177
Burnishing and grinding surfaces — (*see grinding, sharpening*)	188
"Burnt sugar" — (*see sugar*)	420
Bushes and bearings — (*see axles*)	26
Bushes for pulley blocks — (*see ships' rigging*)	374
Busts and statuary — (*see pillars*)	306
Butter and cheese,-making — (*see churns*)	81
Buttons, buckles, studs, sleeve links and other dress fastenings	59
Butts, bunkers or tanks for water — (*see cisterns*)	81
Cabinet sofas — (*see furniture*)	171
Cables and chains — (*see chains*)	78
Cables for telegraphs — (*see telegraphs*)	423
Cages used with hoists — (*see hoists*)	208
Caissons for docks and canals — (*see docks*)	117
Cakes made of liquorice — (*see confectionery*)	99
Cakes or bread-cakes — (*see bread*)	46
Calcining and roasting metallic ores — (*see metals*)	240
Calcining animal and vegetable charcoal — (*see charcoal*)	79
Calculating, teaching	61
Calendering — (*see finishing*)	147
Calf skins — (*see leather*)	226
Calico-printing — (*see printing*)	326
Callipers and dividers — (*see compasses*)	95
Caloric or hot-air engines — (*see air-engines*)	8
Cameos — (*see embossing*)	135
Cameras used in photography — (*see photography*)	303
Camp bedsteads and furniture — (*see furniture*)	171
Cams — (*see wheels for machinery*)	464
Canals and docks — (*see docks*)	117
Candles; candle and lamp wicks	61
Candlesticks — (*see lamps*)	221
Cane juice — (*see sugar*)	420
Canisters — (*see boxes*)	44

	Page
Cannon shot and shell — (*see shot*)	376
Caoutchouc,–treating and vulcanizing — (*see gutta-percha, treating*)	191
Caoutchouc as applied in various manufactures — (*see gutta-percha as applied*)	191
"Cap frames" used in spinning — (*see spinning*)	393
Capes and coats — (*see wearing apparel*)	452
Capillary attraction as motive-power — (*see motive-power*)	273
Capping and priming cap carriers — (*see fire-arms*)	149
Caps, hats and bonnets — (*see hats*)	200
Caps or pots for chimneys — (*see flues*)	157
Capstans and crabs — (*see hoists*)	208
Capsules and stoppers — (*see bottles*)	42
Carbon, coke and charcoal — (*see charcoal*)	79
Carbonates of potash and soda — (*see alkalies*)	24
Carbonic acid gas — (*see aërating*)	7
Carbonizing bones — (*see bones*)	35
Carburetting gases — (*see gas*)	174
Card cases	62
Cardialgy — (*see medicines*)	238
Carding fibrous substances, making cards — (*see spinning*)	393
Carding lace — (*see finishing*)	147
Cargoes,–stowing and discharging — (*see ship-building*)	369
Carpenters' hand, back and other saws — (*see cutting*)	102
Carpet weaving — (*see weaving*)	458
Carpets,–beating and cleaning — (*see upholstery*)	435
Carriage propulsion — (*see propelling*)	333
Carriage ways — (*see paving*)	299
Carriage wheels — (*see wheels for carriages*)	462
Carriages, omnibuses, waggons, carts, trucks, velocipedes	62
Carting produce, manure, &c. — (*see carriages*)	62
Cartridges and cases; gun wads	68
Carts and trucks — (*see carriages*)	62
Carving in wood — (*see wood*)	473
Cased splints for fractures — (*see surgery*)	422
Cases for hats — (*see hats*)	200
Cases for holding cigars — (*see tobacco*)	432
Cases for jewellery — (*see jewellery*)	213
Cases or boxes for cartridges — (*see cartridges*)	68
Cases or boxes for packing — (*see boxes*)	44
Cases or receptacles for cards — (*see card cases*)	62
Casing to protect the lock and stock of fire-arms — (*see fire-arms*)	149
Cask-stands; bungs — (*see casks*)	70
Casks and barrels; cask-stands; bungs	70
Casting and moulding metals; manufacture of castings	71
Casting and moulding plastic materials; manufacture of moulded articles; plastic compositions; moulding fuel	74
Castors for furniture — (*see furniture*)	171
Catches, clasps or fasteners for portfolios — (*see books*)	36
Catching rabbits — (*see destroying insects*)	113
Cattle sheds — (*see stables*)	402
Causeways — (*see paving*)	299
Caustic soda — (*see alkalies*)	24
"Cavendish" tobacco — (*see tobacco*)	432
Ceilings and cornices — (*see building*)	54
Cement and plaster	76
Cemented and flocked fabrics; adhering ornaments and depositing metal on fabrics	77
Cementing and melting metals — (*see metals*)	240
Central fire breech-loaders — (*see fire-arms*)	149
Centrifugal governors — (*see governors*)	128
Ceramic wares, ceramic slips — (*see earthenware*)	130
Cesspools — (*see water-closets*)	447
Chaff-cutting — (*see food for cattle*)	160
Chain harrows — (*see ploughing*)	317
Chains; chain cables; hooks, hoops, rings	78
Chains, swivels and keys for watches — (*see jewellery*)	213
Chains for harness — (*see harness*)	198
Chairs and sleepers for railways — (*see railways*)	352
Chairs and tables — (*see furniture*)	171
Chambers or rooms,–portable — (*see building*)	54
Chandeliers — (*see lamps*)	221
Changes in the atmosphere,–indicating — (*see thermometer*)	427
Chaplets or head dresses — (*see hats*)	200
Charcoal, coke, carbon, moulders' blacking, lamp black	79
Charges for blasting — (*see gunpowder*)	190
Charges or shot for fire-arms — (*see shot*)	376
Charts — (*see maps*)	234
Checks for cash-taking — (*see measuring length*)	236
Checks for window-blinds — (*see window-blinds*)	468
Cheese and butter,–making — (*see churns*)	81
Cheques and bankers' bills	80
Cheroots — (*see tobacco*)	432
Chests or boxes — (*see boxes*)	44
Chimney-pieces — (*see mantel-pieces*)	233
Chimney and wind guards — (*see flues*)	157
Chimneys and chimney tops — (*see flues*)	157
Chimneys for lamps — (*see lamps*)	221
China and pottery — (*see earthenware*)	130
China grass — (*see plants*)	315
Chlorine and chlorides	81
Chloroxynaphthalic and naphthalic acids — (*see acids*)	5
Chromates and bichromates of potash — (*see alkalies*)	24
Chromic acid — (*see acids*)	5
Chronometers and other time-keepers — (*see clocks*)	83
Chucks for drilling machines — (*see boring*)	39
Chucks for lathes — (*see turning*)	433
Churns; making cheese and butter	81
Cider — (*see brewing*)	49
Cigars, cigar holders, cigar lights — (*see tobacco*)	432
Circular box looms — (*see weaving*)	455
Circular knitting machines — (*see weaving*)	459
Circular or drunken saws — (*see cutting*)	102
Cisterns, reservoirs, tanks and buckets	81
Citric and tartaric acids — (*see acids*)	5
Clarionets — (*see musical instruments*)	274
Clasps for purses — (*see purses*)	350
Clasps or fasteners for albums, portfolios and books — (*see books*)	36

	Page
Clasps or fatenings for bags — (*see bags*)	30
Clay for brick making,–preparing — (*see bricks*)	51
Cleaning boots — (*see boots*)	36
Cleaning coffee — (*see coffee*)	93
Cleaning currants — (*see preserving food*)	320
Cleaning grain, seeds and rice — (*see thrashing*)	429
Cleaning knives, forks and spoons — (*see knives*)	219
Cleaning or grooming horses — (*see harness*)	198
Cleaning windows — (*see windows*)	469
Cleansing and washing fabrics, yarns, &c. — (*see washing*)	445
Cleansing pictures — (*see pictures*)	305
Cleansing roads — (*see paving*)	299
Cleansing ships' bottoms — (*see ship-building*)	369
Cleansing steam-boilers — (*see steam-boilers*)	410
Cleansing stone and marble — (*see stone*)	418
Cleansing sugar — (*see sugar*)	420
Cleansing tubes — (*see pipes*)	308
Cleansing waste — (*see rags*)	351
Cleansing wood — (*see wood*)	473
Clipping or shearing horses — (*see harness*)	198
Cloaks, paletôts and overcoats — (*see wearing apparel*)	452
Clocks, watches and other timekeepers; watch keys, chains and guards	83
Clod crushing — (*see ploughing*)	317
Clog soles and patten boards — (*see boots*)	36
Closets or water-closets — (*see water-closets*)	447
Closing and opening jars; stopping bottles — (*see bottles*)	42
Closing and opening valves — (*see valves*)	437
Cloth-lined collars for gentlemen's wear — (*see shirts*)	375
Cloth-lined collars for ladies' wear — (*see petticoats*)	301
Cloth manufacture by weaving — (*see weaving*)	455
Clothes,–washing and wringing—(*see washing*)	445
Clothing or wearing-apparel — (*see wearing-apparel*)	452
Cloths or carpets for stairs — (*see upholstery*)	435
Coal dust, treating coal — (*see fuel*)	162
Coal gas — (*see gas*)	174
Coal mining — (*see mining*)	260
Coal oils — (*see oils of tar*)	284
Coating, covering, plating, sheathing	84
Coats and capes — (*see wearing-apparel*)	452
Cocks or valves — (*see valves*)	437
Coffee and cocoa; coffee-pots and tea-urns	93
Coffins, tombstones, monumental tablets	94
Cog wheels — (*see wheels for machinery*)	464
Coins and medals	94
Coke and charcoal — (*see charcoal*)	79
Cold or heat,–ascertaining degrees of — (*see thermometers*)	427
Collapsible tubes — (*see pipes*)	308
Collars for gentlemen's wear — (*see shirts*)	375
Collars for horses — (*see harness*)	198
Collars for ladies' wear — (*see petticoats*)	301
Collars or bearings — (*see axles*)	26
Collecting particles floating in the air — (*see ventilation*)	441
Collecting smoke — (*see smoke*)	387
Collecting sulphur — (*see sulphur*)	421
Collieries — (*see mining*)	260
Collodion — (*see photography*)	303
Colour printing — (*see printing*)	326
Colouring and painting, colours and paints — (*see painting*)	291
Colouring brandy — (*see distilling*)	115
Colouring coffee — (*see coffee*)	93
Colouring or dyeing fabrics, yarns, &c. — (*see dyeing*)	126
Colours or dyes — (*see dyes*)	128
Columns and pillars — (*see pillars*)	306
Combined vertical cylinders — (*see cylinders*)	107
Combing fibrous substances — (*see spinning*)	393
Combining steam-boilers — (*see steam-boilers*)	405
Combs	94
Combustible substances — (*see fuel*)	162
Combustion of gas — (*see gas-burners*)	177
Combustion pumps — (*see pumps*)	347
Commodes — (*see water-closets*)	447
Communicating apparatus — (*see signals*)	380
Compasses; measuring angles; surveying and levelling; mathematical and astronomical instruments	95
Compensating wheels used with carriages — (*see wheels for carriages*)	462
Composing or "setting up" printing type — (*see printing*)	326
Composition or cement — (*see cement*)	76
Compositions in imitation of wood — (*see wood*)	473
Composts or fertilizers — (*see manure*)	233
Compound cylinder engines — (*see steam engines*)	412
Compound metals — (*see metals*)	240
Compound motions in machinery — (*see propelling*)	334
Compounds of india-rubber and gutta-percha — (*see gutta-percha,–treating*)	191
Compressed air engines — (*see air engines*)	8
Compressing and packing — (*see presses*)	322
Concentrated ventilators — (*see ventilation*)	441
Concentrating, condensing and refrigerating — (*see condensing*)	96
Concentrating light — (*see lamps*)	221
Concertinas — (*see musical instruments*)	274
Condensing, cooling, freezing	96
Condensing fumes or smoke — (*see smoke*)	387
Condensing steam-engines — (*see steam-engines*)	412
Condition and quality of substances,–ascertaining the — (*see testing*)	427
Conductors for electric telegraphs — (*see telegraphs*)	423
Confectionery, lozenges, liquorice cakes	99
Conical plug steam valves — (*see valves*)	437
Connecting and joining — (*see joining*)	215
Connecting gaffs to ships' masts — (*see ship-building*)	369
Conservatories and hothouses — (*see horticulture*)	211
Consuming smoke — (*see smoke*)	387
Continuous motive-power—(*see motive-power*)	273
Controlling or regulating power — (*see governors*)	182
Converting metals — (*see metals*)	240
Converting reciprocating into rotary motion — (*see propelling*)	334

	Page
Cooking and apparatus used in cooking	99
Coolers for wine and beer — (*see brewing*)	49
Cooling or refrigerating — (*see condensing*)	96
"Cop frames," forming cops — (*see spinning*)	393
Cop tubes — (*see bobbins*)	35
Cop winding — (*see winding*)	466
Copings and window sills of buildings — (*see building*)	54
Copper — (*see metals*)	240
Copper-plate printing — (*see printing*)	326
Coprolites — (*see manure*)	233
Copying, tracing, drawing and writing	100
Cord checks for window-blinds — (*see window-blinds*)	468
Cordage — (*see ropes*)	365
Cores and moulds used in casting metals — (*see casting metals*)	71
Cork; corks and bungs	101
Corkscrews, opening bottles — (*see bottles*)	42
Corn, grain and seeds,–thrashing, dressing, &c. — (*see thrashing*)	429
Corn grinding — (*see grinding corn*)	185
Cornice poles and rings — (*see upholstery*)	435
Cornices and ceilings — (*see building*)	54
Corrosion and incrustration,–preventing — (*see oxidation*)	289
Corsets and bodices — (*see petticoats*)	301
Cosmetics — (*see hair-dressing*)	196
Cotton,–batting, carding, roving, spinning and doubling — (*see spinning*)	393
Cotton presses — (*see presses*)	322
Cotton seed oil — (*see oils from seeds*)	283
Counters and desks — (*see furniture*)	171
Coupling and connecting — (*see joining*)	215
Coupling and uncoupling railway carriages — (*see railways*)	356
Covered springs for ladies' clothing — (*see petticoats*)	301
Covering and protecting bottles and jars — — (*see bottles*)	42
Covering glass, wood, stone, &c. — (*see coating*)	87
Covering metals with other substances — (*see coating*)	84
Covering rollers, roller covers — (*see coating*)	92
Covering trunks and lining boxes — (*see boxes*)	44
Coverings or roofs of buildings — (*see building*)	54
Coverings for the feet — (*see boots*)	36
Coverings for the head — (*see hats*)	200
Covers for books — (*see books*)	36
Covers for cisterns or tanks — (*see cisterns*)	81
Covers for dishes and plates — (*see plates*)	316
Covers for furniture — (*see oil-cloths*)	279
Covers or lids for saucepans — (*see cooking*)	99
Cow-sheds and piggeries — (*see stables*)	402
Cowls for chimneys — (*see flues*)	157
Crabs and capstans — (*see hoists*)	208
Crackers for nuts or lobsters — (*see knives*)	219
Cradles and nursing apparatus — (*see furniture*)	171
Cranes and capstans — (*see hoists*)	208
Crank axles, bushes and bearings — (*see axles*)	26
Crank axles of looms — (*see weaving*)	455
Cranks and gearing — (*see propelling*)	334
Cravats — (*see shirts*)	375
Crayons for drawing — (*see copying*)	100
Cricket, cricket balls — (*see games*)	173
Crinolines, crinoline skirts — (*see petticoats*)	301
Croquêt — (*see games*)	173
Crosscut and carpenters' hand back saws — (*see cutting*)	102
Crossings used on railways — (*see railways*)	355
Crucibles — (*see retorts*)	363
Cruet frames — (*see plates*)	316
Crushing clods, land rollers — (*see ploughing*)	317
Crushing corn and seeds — (*see grinding corn*)	185
Crushing minerals, clay, cement, &c. — (*see grinding minerals*)	186
Cues for billiards — (*see games*)	173
Cuffs and collars for ladies' wear — (*see petticoats*)	301
Culinary utensils — (*see cooking*)	99
Cultivation of grapes — (*see horticulture*)	211
Cultivation of land — (*see ploughing*)	317
Cupboards — (*see furniture*)	171
Cupolas — (*see furnaces*)	164
Cupreous ores — (*see metals*)	240
Cups and balls used as toys — (*see toys*)	433
Cups and saucers— (*see plates*)	316
Cups or sockets applied to candles — (*see lamps*)	221
Curds and whey,–separating — (*see churns*)	81
Cure of diseases — (*see medicines*)	238
Curing bacon — (*see preserving food*)	320
Curing smoky chimneys — (*see smoke*)	387
Curing tea — (*see coffee*)	93
Curling, waving and frizzling hair — (*see hair-dressing*)	196
Curling or curving ladies' collars — (*see petticoats*)	301
Currants and raisins,–cleaning or dressing — (*see preserving food*)	320
Currents of electricity — (*see electricity*)	131
Currying or dressing skins — (*see leather*)	226
Curtains and curtain rods — (*see upholstery*)	435
Curved designs,–sawing — (*see cutting*)	102
Curving and bending metals — (*see metals*)	249
Cushions — (*see upholstery*)	435
Cutlery — (*see knives*)	219
Cutting, sawing, planing	102
Cutting bread and butter (*see preserving food*)	320
Cutting coal or minerals — (*see mining*)	260
Cutting hair, hair dressing — (*see hair-dressing*)	196
Cutting off the upper parts of piles — (*see pile-driving*)	306
Cutting or forming the tips or points of candles — (*see candles*)	61
Cylinders, rollers, drums; covering rollers	107
Daggers and swords, sword-handles — (*see bayonets*)	32
Damp wheat,–improving the condition of — (*see thrashing*)	429
Dampers and tuyères — (*see air-supplying*)	10
Damping stamps and lithographic stones, damping postage stamps — (*see stamps*)	403
Dark tents for photographers — (*see photography*)	303
Dashes and hoods of carriages — (*see carriages*)	62

	Page
Date indicators — (*see measuring length*)	236
Day signals — (*see signals*)	380
Decanters and drinking vessels — (*see bottles*)	42
Decks of ships, deck covers — (*see ship-building*)	369
Decoctions and extracts — (*see extracts*)	139
Decolourising — (*see bleaching*)	34
Decorating houses — (*see building*)	54
Decorticating grain, removing outer pellicles — (*see thrashing*)	429
Deed-boxes and chests — (*see boxes*)	44
Degrees of strength and elasticity,–ascertaining — (*see testing*)	427
Delivering mails and parcels in railway trains — (*see railways*)	352
Dentistry; artificial teeth, toothpicks	113
Deodorising charcoal — (*see charcoal*)	79
Deodorising noxious vapours — (*see disinfecting*)	114
Depositing metal by electricity — (*see electro-plating*)	135
Depositing metal on fabrics — (*see cemented fabrics*)	77
Depositing seeds and manure — (*see sowing*)	391
Depositories or safes — (*see locks*)	228
Deposits and incrustations,–preventing — (*see oxidation*)	289
Desiccating eggs — (*see preserving food*)	320
Desks and counters — (*see furniture*)	171
Despatch bags; mail and travelling bags — (*see bags*)	30
Despatch boxes — (*see boxes*)	44
Destroying insects; traps for vermin, rabbits, &c., game nets	113
Destroying ships — (*see ship-building*)	369
Detaching sails from stays and yards — (*see ships' rigging*)	374
Detaching ships' boats — (*see ships' boats*)	374
Detent wheels — (*see clocks*)	83
Detergent solutions — (*see washing*)	445
Dials of clocks and watches — (*see clocks*)	83
Dials used for indicating distance travelled — (*see measuring progress*)	237
Dies for stamping medals or coins — (*see coins*)	94
Differential wheel gearing — (*see propelling*)	334
Diffusing disinfectants — (*see disinfecting*)	114
Digestive elixirs, pills, &c. — (*see medicines*)	238
Digging land for cultivation — (*see ploughing*)	317
Diminishing consumption of fuel — (*see smoke*)	387
Direction of the wind,–registering the — (*see thermometers*)	427
Discharging bilge water — (*see drains*)	121
Discharging cargoes — (*see ship-building*)	369
Discharging or drawing off fluids — (*see valves*)	437
Disconnecting horses from carriages — (*see harness*)	198
Disconnecting machinery gear—(*see governors*)	182
Disengaging and lowering ships' boats — (*see ships' boats*)	374
Disengaging runaway horses — (*see harness*)	198
Dishes and plates — (*see plates*)	316
Disinfecting, deodorizing, perfuming	114
Dispersing scents — (*see disinfecting*)	114
Dissected maps and charts — (*see maps*)	234
Dissolving pitch — (*see tar*)	423
Distilling and rectifying	115
Distilling water — (*see filtering*)	146
Distributing advertisements — (*see advertising*)	6
Distributing liquid manure — (*see sowing*)	391
Distributing or supplying water—(*see watering*)	447
Distributing printing type — (*see printing*)	326
Distributing sand on railways — (*see railways*)	352
Dividers and callipers — (*see compasses*)	95
Diving and buoying — (*see buoys*)	58
Docks, harbours, breakwaters, piers, landing-stages, canals, sea walls, submarine works, weirs	117
Documents and letters,–copying —— (*see copying*)	100
Dog leashes or slips — (*see harness*)	198
Dolls — (*see toys*)	433
Door mats — (*see upholstery*)	435
Doors and gates; door furniture	119
Double acting lift pumps — (*see pumps*)	347
Double cloths made in looms — (*see weaving*)	455
Double cylinder steam-engines — (*see steam engines*)	412
Doubling and twisting fibrous substances — (*see spinning*)	393
Dough or paste — (*see bread*)	46
Dovetailing and grooving — (*see cutting*)	102
Drafts and bills,–bankers — (*see cheques*)	80
Drafts from doors,–preventing — (*see doors*)	119
Drags, harrows and cultivators — (*see ploughing*)	317
Drags or skids for carriages — (*see breaks*)	47
Drains, sewers, gutters; drain pipes and tiles; draining; stench traps	121
Dramatic and scenic effects, illusory exhibitions, stage scenery	123
Draught beer, ale, porter and cider — (*see brewing*)	49
Draughting patterns for garments — (*see wearing-apparel*)	452
Draw springs — (*see springs*)	401
Drawers and shirts — (*see shirts*)	375
Drawers for furniture — (*see furniture*)	171
Drawing and tracing — (*see copying*)	100
Drawing carriages — (*see propelling*)	333
"Drawing in" warps preparatory to weaving — (*see weaving*)	454
Drawing off fluids — (*see valves*)	437
Drawing off smoke — (*see smoke*)	387
Drawing or removing corks from bottles — (*see bottles*)	42
Drawing or roving fibrous substances — (*see spinning*)	393
Drawing-room fireworks — (*see rockets*)	365
Dredging and excavating — (*see excavating*)	137
Dress fastenings — (*see buttons*)	59
Dress shirts — (*see shirts*)	375
Dresses and belts for swimming — (*see buoys*)	58
Dresses worn by ladies — (*see petticoats*)	301
Dressing and cleansing grain seeds and rice — (*see thrashing*)	429
Dressing and finishing cheeses — (*see churns*)	81
Dressing and sizing yarns — (*see sizing*)	386
Dressing flour, flour mills — (*see grinding corn*)	185
Dressing fruit — (*see preserving food*)	320

	Page
Dressing hair — (*see hair-dressing*)	196
Dressing or finishing woven goods, &c. — (*see finishing*)	147
Dressing printers' types — (*see printing*)	326
Dressing skins and leather — (*see leather*)	226
Dressing stone and slate — (*see stone*)	418
Dressing yarns in looms for weaving — (*see weaving*)	454
Dressing-cases — (*see boxes*)	44
Drifts and tunnels — (*see excavating*)	137
Drill braces — (*see vices*)	414
Drilling or boring holes; gimlets and augers — (*see boring*)	39
Drilling seeds — (*see sowing*)	391
Drinking cups — (*see plates*)	316
Drinking vessels — (*see bottles*)	42
Driving-bands and belts — (*see straps*)	419
Driving machinery, ploughs, &c. — (*see propelling*)	334
Driving piles — (*see pile-driving*)	306
Driving screws, screw-drivers — (*see vices*)	444
Drugs — (*see medicines*)	238
Drums, drumsticks and cords — (*see musical instruments*)	274
Drums, and cylinders — (*see cylinders*)	107
Drunken or circular saws — (*see cutting*)	102
Dry gas meters — (*see meters*)	259
Drying and stretching; expressing moisture	123
Duplex steam-engines — (*see steam-engines*)	412
Dusting and sweeping brushes — (*see brushes*)	53
Dyeing textile fabrics, yarns and materials; fixing colours; mordants	126
Dyes and printing-colours	128
Dyspepsy and cardialgy — (*see medicines*)	238
Earthenware and porcelain; pottery kilns; potters' glazes; ceramic wares; terra cotta	130
Earthy salts — (*see alkalies*)	24
Economic boilers — (*see steam-boilers*)	405
Economising fuel — (*see smoke*)	387
Edge tools, edges of cutlery — (*see knives*)	219
Edibles or food,–preparing and preserving — (*see preserving food*)	320
Effecting communications in railway trains — (*see signals*)	380
Effecting telegraphic communications — (*see telegraphs*)	423
Effervescing drinks — (*see aërating*)	7
Eggs,–preserving — (*see preserving food*)	320
Elastic binders for boots and shoes—(*see boots*)	36
Elasticity and strength,–ascertaining degrees of — (*see testing*)	427
Electric clocks — (*see clocks*)	83
Electric telegraphs — (*see telegraphs*)	423
Electricity, galvanism and magnetism, and their application	131
Electro-meters, ascertaining intensity of electro-currents — (*see thermometers*)	427
Electro-plating and galvanizing; depositing metal by electricity	135
Elevating or lifting up — (*see hoists*)	208
Embankments — (*see excavating*)	137
Embossing; producing raised patterns	135
Embroidering — (*see sewing*)	366
Emery sand and glass papers and cloths — (*see grinding, sharpening*)	188
Enabling communications to be made in railway trains — (*see signals*)	680
Enamelling, enamels	136
Endless cloths — (*see fabrics*)	139
Endless tracks or railways — (*see railways*)	352
Engine lathes — (*see turning*)	433
Engraving and etching; producing sunk devices	136
Envelopes	137
Equipments for diving — (*see buoys*)	58
Escape of gas,–preventing — (*see gas-burners*)	177
Escapements of watches and other time-keepers — (*see clocks*)	83
Esparto straw and grasses — (*see plants*)	315
Etching — (*see engraving*)	136
Eucalytus family of plants — (*see plants*)	315
Evaporating — (*see heating*)	201
Ever-pointed pencils — (*see pens*)	300
Examination and cleansing of ships' bottoms — (*see ship-building*)	369
Excavating and dredging; tunnels and embankments	137
Exercises and games — (*see games*)	173
Exhalations or smoke,–preventing — (*see smoke*)	387
Exhausting air for manufacturing purposes — (*see air supplying*)	15
Exhibiting goods for sale — (*see show-cases*)	378
Exhibiting orders on board ships — (*see signals*)	380
Exhibitions and scenic effects — (*see dramatic effects*)	123
Expanding metals — (*see metals*)	249
Expelling smoke — (*see smoke*)	387
Explosive compounds — (*see gunpowder*)	190
Expressing moisture — (*see drying*)	123
Extinguishing fires — (*see fire-engines*)	154
Extracting fibres from mixed fabrics—(*see rags*)	351
Extracts and decoctions	139
Eyelets,–making — (*see buttons*)	59
Eyes,–artificial — (*see surgery*)	422
Fabrics; elastic fabrics	139
Fabrics made by cementation — (*see cemented fabrics*)	77
Fabrics made by felting — (*see fulling*)	163
Fabrics made by weaving — (*see weaving*)	455
Facilitating communications in railways — (*see signals*)	380
Facilitating escape of smoke — (*see smoke*)	387
Facing flags for pavements — (*see paving*)	299
Facing glass, wood, stone, &c. — (*see coating*)	87
Facing metals with other substances — (*see coating*)	84
Facing or smoothing surfaces — (*see grinding, sharpening*)	188
Facing woollen cloth — (*see finishing*)	147
Factitious flagstones — (*see stone*)	418
Fans and bellows — (*see air-supplying*)	15
Fans for thrashing-machines — (*see thrashing*)	429
Farinaceous articles,–baking — (*see bread*)	46
Fasteners for belts and braces — (*see belts*)	33
Fasteners for envelopes — (*see envelopes*)	137
Fasteners for harness — (*see harness*)	198
Fastenings and holders for bags and sacks — (*see bags*)	30

	Page
Fastenings for albums, portfolios and books — (*see books*)	36
Fastenings for doors and gates — (*see doors*)	119
Fastenings for doors of strong rooms and safes — (*see locks*)	228
Fastenings for dresses — (*see buttons*)	59
Fastenings for leggings, gaiters and boots — (*see boots*)	36
Fastenings for purses — (*see purses*)	350
Fastenings for railways — (*see railways*)	352
Fastenings for ships — (*see ship-building*)	369
Fastenings for solitaires, brooches and other articles of jewellery — (*see jewellery*)	213
Fastenings for stay busks — (*see petticoats*)	301
Fastenings for windows — (*see windows*)	469
Fats and animal oils — (*see oils from seeds*)	283
Fatty acids — (*see acids*)	5
Feathering paddles and oars — (*see propelling*)	330
Feathers, artificial feathers and flowers	140
Febrifuges — (*see medicines*)	238
Feed motions in machinery — (*see propelling*)	334
Feed wheels — (*see wheels for machinery*)	464
Feeding fuel to furnaces — (*see furnaces*)	164
Feeding meal to bolting reels — (*see grinding corn*)	185
Feeding steam-boilers with water — (*see steam-boilers*)	411
Feeding-troughs for cattle — (*see stables*)	402
Feet protectors — (*see boots*)	36
Felloes and spokes for wheels — (*see wheels for carriages*)	462
Felton's American mill — (*see grinding corn*)	185
Felts, felting — (*see fulling*)	163
Fences and railings	141
Fenders and fire-irons — (*see fire-places*)	155
Fenders for ships — (*see ship-building*)	369
Fermenting and treating beer, wine, &c. — (*see brewing*)	49
Fertilizers or composts — (*see manure*)	233
Fettling furnaces — (*see furnaces*)	164
Fibres (*obtaining from plants, recovering from manufactured goods, separating, cleansing, packing*)	141
Fibres for brushes — (*see brushes*)	53
Fibrous plants — (*see plants*)	315
Fibrous substances,–preparing and spinning — (*see spinning*)	393
Filamentous materials,–spinning and preparing for spinning — (*see spinning*)	393
Files and clips; forceps	144
Files and rasps	145
Filigree work and frets — (*see mouldings*)	274
Filing papers — (*see files and clips*)	144
Filtering, purifying and clarifying liquids; filters; distilling water, softening water	146
Fining spirituous liquors — (*see distilling*)	115
Finishing, dressing, singeing, shearing, folding and pressing woven fabrics, yarns, &c.	147
Fire alarms — (*see signals*)	380
Fire-arms, guns, ordnance, gun-carriages, targets, rifle practice	149
Fire-boxes — (*see furnaces*)	164
Fire-bricks and tiles — (*see bricks*)	51
Fire-engines; fire-escapes; extinguishing fires	154
Fire guards — (*see fire places*)	155
Fire-lighters, lighting fires — (*see fuel*)	162
Firing and curing tea — (*see coffee*)	93
Firing porcelain and earthenware —— (*see earthenware*)	130
Fire places, grates, and stoves: fenders and fire-guards	155
Fireproof buildings — (*see building*)	54
Fireproof fabrics and buildings — (*see waterproof fabrics*)	448
Fireproof safes — (*see locks*)	228
Firescreens — (*see window blinds*)	468
Fireworks — (*see rockets*)	365
Fishing; fishing nets; fish hooks, harpoons	157
Fitting partitions in stables — (*see stables*)	402
Fittings for gas — (*see gas-burners*)	177
Fittings for pipes — (*see pipes*)	308
Fittings for ships and boats — (*see ship-building*)	369
Fittings for windows — (*see windows*)	469
Fixed and volatile mineral oils — (*see oils of tar*)	284
"Fixing" agents in photographic productions — (*see photography*)	303
Fixing colours in dyeing — (*see dyeing*)	126
Fixing safes and strong boxes — (*see locks*)	228
Fixing the ends of boiler tubes — (*see steam-boilers*)	405
Fixing trellis for training fruit trees — (*see horticulture*)	211
Flags and slate — (*see stone*)	418
Flasks for powder — (*see gunpowder*)	190
Flasks or bottles — (*see bottles*)	42
Flax,–heckling, carding, roving and spinning — (*see spinning*)	393
Flesh and bath brushes — (*see brushes*)	53
Flexible roofing — (*see building*)	54
Flexible tubing — (*see pipes*)	308
Floating batteries — (*see fortifications*)	161
Floating docks, floating piers — (*see docks*)	117
Floating lights, lighthouses — (*see buoys*)	58
Floating vessels or ships — (*see ship-building*)	369
Flocked fabrics, flock — (*see fulling*)	163
Floor-cloths — (*see oil-cloths*)	279
Flooring and roofing buildings — (*see building*)	54
Flour mills, dressing flour—(*see grinding corn*)	185
Flower-stands, flower-baskets — (*see horticulture*)	211
Flowers of sulphur — (*see sulphur*)	421
Flues and chimneys; chimney tops; curing smokey chimneys; chimney wind guards	157
Fluid meters — (*see meters*)	259
Fly-wheels — (*see wheels for machinery*)	464
Flyers — (*see spindles*)	392
Flying fish used as a toy — (*see toys*)	433
Fodder cutting — (*see food for cattle*)	160
Fog signals — (*see signals*)	380
Folding chairs or seats — (*see furniture*)	171
Folding envelopes — (*see envelopes*)	137
Folding shutters — (*see windows*)	469
Folding woven fabrics — (*see finishing*)	147
Food for cattle; fodder cutting; chaff cutting; root pulping	160
Food or edibles,–preparing and preserving — (*see preserving food*)	320
Foot balls — (*see games*)	173
Footstep bearings — (*see axles*)	26

	Page
Force dispeller or spring buffing apparatus — (*see breaks*)	47
Force of the wind,–registering the — (*see thermometers*)	427
Force pumps — (*see pumps*)	347
Forceps — (*see files and clips*)	144
Forcing and exhausting air — (*see air supplying*)	15
Forcing open iron safes,–preventing the — (*see locks*)	228
Forgery of bank cheques,–prevention of — (*see cheques*)	80
Forges and fire-boxes — (*see furnaces*)	164
Forging metals — (*see metals*)	249
Forks, knives, spoons, &c. — (*see knives*)	219
Formation of embankments — (*see excavating*)	137
Formation of smoke,–preventing the — (*see smoke*)	387
Forming or cutting the tips or points of candles — (*see candles*)	61
Forming small coal into lumps — (*see fuel*)	162
Fortifications, batteries, ships of war, gun boats, armour plated ships	161
Fouling and incrustation,–preventing — (*see oxidation*)	289
Fouling of ships bottoms',–preventing the — (*see ship-building*)	369
Foundry cupolas — (*see furnaces*)	164
Fountains — (*see watering*)	447
Fractures,–splints and bandages for — (*see surgery*)	422
Frames and fastenings of carpet bags — (*see bags*)	30
Frames for cruets — (*see plates*)	316
Frames for heckles, screw gills — (*see spinning*)	393
Frames for looking-glasses — (*see looking-glasses*)	231
Frames for pictures — (*see pictures*)	305
Frames for roving fibrous substances — (*see spinning*)	393
Frames for tables — (*see furniture*)	171
Frames for windows — (*see windows*)	469
Frames used for knitting and lace work — (*see weaving*)	459
Freezing; freezing mixtures — (*see condensing*)	96
French willow — (*see plants*)	315
Fret cutting or sawing — (*see cutting*)	102
Frets and filigree work — (*see mouldings*)	274
Friction gearing of axles — (*see axles*)	26
Frills and ruffles — (*see petticoats*)	301
Fringe weaving — (*see weaving*)	460
Frizzling and curling the hair — (*see hair-dressing*)	196
Fronts and rims for hats — (*see hats*)	200
Fronts of shirts — (*see shirts*)	375
Frost screen awnings for fruit trees — (*see horticulture*)	211
Fruit,–dressing and preserving — (*see preserving food*)	320
Fuel; treating coal; preparing fire-wood; fire-lighters	162
Fuel economisers — (*see smoke*)	387
Fulling and felting; felted fabrics; flock, wadding	163
Fumes or smoke — (*see smoke*)	387
Fumigating and perfuming — (*see disinfecting*)	114
Fumigating greenhouses — (*see horticulture*)	211
Furling and reefing sails — (*see ships' rigging*)	374
Furnaces and fire-boxes; supplying furnaces with fuel	164
Furniture:—bedsteads, tables, chairs, cradles, and nursing apparatus; casters; bedstead bottoms	171
Furniture covers — (*see oil-cloths*)	279
Furniture for doors; knobs and handles — (*see doors*)	119
Furniture for lamps — (*see lamps*)	221
Furniture for locks — (*see locks*)	228
Furniture for umbrellas and parasols — (*see umbrellas*)	434
Fusee watches and pocket chronometers — (*see clocks*)	83
Fusees — (*see matches*)	234
Fuses for shells — (*see shot*)	376
Gaffs, yards and spars for ships — (*see ship-building*)	369
Gaiters and spatterdashers — (*see boots*)	36
"Gaiting" looms for weaving — (*see weaving*)	454
Galvanising — (*see electro-plating*)	135
Galvanism, galvanic batteries — (*see electricity*)	131
Game and nose bags — (*see bags*)	30
Game nets — (*see destroying insects*)	113
Games and exercises; billiards and bagatelle	173
Gangways and landing-stages — (*see docks*)	117
Garden cultivation, garden walls — (*see horticulture*)	211
Garments for gentlemen's wear — (*see wearing-apparel*)	452
Garments for ladies' wear — (*see petticoats*)	301
Garters — (*see belts*)	33
Gas, gasometers, holders and retorts; oxygen	174
Gas and air engines — (*see air engines*)	8
Gas and other burners and regulators; gas fittings; lighting gas; preventing escape of gas	177
Gas meters — (*see meters*)	259
Gas pendants — (*see lamps*)	221
Gas stoves — (*see fire-places*)	155
Gates and doors — (*see doors*)	119
Gauges, safety plugs, water level indicators	180
Gauging or measuring size or girth — (*see measuring length*)	236
Gazogene — (*see aërating*)	7
Gear for starting, stopping and reversing machinery — (*see governors*)	182
Gear for steering — (*see steering*)	417
Gearing for machinery — (*see propelling*)	334
Gelatine and glue — (*see starch*)	404
Generating heat — (*see heating*)	201
Generating light — (*see lamps*)	221
Generating steam — (*see steam-boilers*)	405
Getting coal, stone and minerals — (*see mining*)	260
"Giffard's injector" — (*see steam-boilers*)	411

	Page
Gimlets, augers and bracebits — (*see boring*)	39
Ginning fibrous substances, cotton gins — (*see spinning*)	393
Girders for bridges — (*see bridges*)	52
Girders or beams for buildings — (*see building*)	54
Girths and bands — (*see belts*)	33
Giving alarms — (*see signals*)	380
Giving motion to machinery — (*see propelling*)	334
Glaciaria or skating places — (*see building*)	54
Glass; applications of glass	180
Glass and sand papers and cloths — (*see grinding, sharpening*)	188
Glass ridges for the cultivation of grapes — (*see horticulture*)	211
Glazes and lacquers — (*see painting*)	291
Glazes used by potters — (*see earthenware*)	130
Globes and maps — (*see maps*)	234
Globes for lamps — (*see lamps*)	221
Gloves	182
Glue and size — (*see starch*)	404
Goffering and ironing — (*see mangling*)	232
Gold, auriferous ores — (*see metals*)	240
Gouges and plane irons — (*see cutting*)	102
Governors and indicators of speed and power for stationary engines and machinery; starting, stopping and reversing apparatus; machine-breaks	182
Grafting fruit trees — (*see horticulture*)	211
Grain, seeds, and rice,–thrashing and dressing — (*see thrashing*)	429
Grain sugar — (*see sugar*)	420
Graining and painting — (*see painting*)	291
Grape scissors — (*see knives*)	219
Grass mowing machines — (*see reaping*)	362
Grass-trees and grasses — (*see plants*)	315
Grates — (*see fire-places*)	155
Graving docks — (*see docks*)	117
Gravitation as a motive-power — (*see motive-power*)	273
Green colouring matters — (*see dyes*)	128
Greenhouses — (*see horticulture*)	211
Grinding and crushing corn, grain, seeds, &c.; dressing flour; millstones; decorticating grain, grinding dried meat	185
Grinding and crushing minerals, clay, fibrous plants, &c.; breaking stone	186
Grinding and sharpening; flat grinding and polishing; grinding surfaces; emery, sand and glass papers and cloths	188
Grooming horses — (*see harness*)	198
Grooved rollers — (*see cylinders*)	107
Grooving and dovetailing — (*see cutting*)	102
Ground vineries — (*see horticulture*)	211
Guano — (*see manure*)	233
Guards and chains for watches — (*see clocks*)	83
Guides and adjustments for machinery — (*see propelling*)	334
Guiding caps — (*see fire-arms*)	149
Guiding or steering ships, carriages, ploughs, &c. — (*see steering*)	417
Gully or stench traps — (*see drains*)	121
Gum and gumaline — (*see starch*)	404
Gumming and damping lables and stamps — (*see stamps*)	403
Gumming envelopes — (*see envelopes*)	137
Gun-boats and armour-plated ships — (*see fortifications*)	161
Gun-carriages — (*see fire-arms*)	149
Gun-cotton — (*see gunpowder*)	190
Gun-cotton cartridges — (*see cartridges*)	68
Gunpowder and explosive compounds; powder flasks	190
Gun wads — (*see cartridges*)	68
Gutta-percha and india-rubber (*preparing, treating, vulcanizing*)	191
Gutta-percha and india-rubber as applied in various manufactures	191
Gutters and drains — (*see drains*)	121
Gymnastic exercises — (*see games*)	173
Hair,–twisting and spinning — (*see spinning*)	393
Hair dressing and perfumery	196
Halyards — (*see ships' rigging*)	374
Hammering metals — (*see metals*)	249
Hammers, axes, picks, screw-drivers	197
Hammocks — (*see furniture*)	171
Hampers and baskets — (*see bags*)	30
Hand drilling — (*see boring*)	39
Hand stamps — (*see stamps*)	403
Handles and knobs for doors — (*see doors*)	119
Handles for picks, hammers, &c. — (*see hammers*)	197
Handles for saucepans and culinary utensils — (*see cooking*)	99
Handles for umbrellas, parasols, and walking-sticks — (*see umbrellas*)	434
Handles of knives, forks and spoons — (*see knives*)	219
Handles of smoothing irons — (*see mangling*)	232
Handles of tea and coffee pots — (*see coffee*)	93
Hanging or mounting millstones — (*see grinding corn*)	185
Hanging or suspending blinds — (*see window-blinds*)	468
Hanging pictures — (*see pictures*)	305
Hangings of paper, paper hangings — (*see paper*)	294
Harbours and breakwaters — (*see docks*)	117
Hardening metals — (*see metals*)	240
Harmoniums — (*see musical instruments*)	274
Harness, saddles, bits, blinkers, stirrups and whips; harnessing, releasing from harness; shearing, grooming, &c., shampooing horses	198
Harpoons — (*see fishing*)	157
Harrows and hoes — (*see ploughing*)	317
Harvesting machines — (*see reaping*)	362
Hatchel teeth used in flax spinning — (*see spinning*)	393
Hats, caps, bonnets, ladies' caps, cap-fronts; coverings for the head; head dresses, head ornaments	200
Hay-making machines — (*see reaping*)	362
Head dresses — (*see hats*)	200
Healds for looms — (*see weaving*)	460
Hearth rugs — (*see upholstery*)	435
Heat or cold,–ascertaining degrees of — (*see thermometers*)	427
Heating and evaporating; regulating heat	201
Heavy bodies,–raising and lowering — (*see hoists*)	208

	Page
Heckling fibrous substances — (*see spinning*)	393
Heels of boots and shoes — (*see boots*)	36
Helical or spiral springs — (*see springs*)	401
Hemorrhoids — (*see medicines*)	238
Hemp,–heckling, carding, roving and spinning — (*see spinning*)	393
Hides, skins and leather — (*see leather*)	226
Hinges and joints — (*see joining*)	215
Hoes, scarifiers and scurrifurrows — (*see ploughing*)	317
Hoists, cranes, capstans, windlasses; raising and lowering heavy bodies; raising from mines; raising sunken ships; moving heavy bodies	208
Holders and fastenings for bags and sacks — (*see bags*)	30
Holders for bobbins — (*see bobbins*)	35
Holders for bottles, bottle holders—(*see bottles*)	42
Holders for candles, candlesticks — (*see lamps*)	221
Holders for gas — (*see gas*)	174
Holders for heckling machines — (*see spinning*)	393
Holders for pencils and pens — (*see pens*)	300
Holders for wine glasses — (*see plates*)	316
Holders or slides for books — (*see books*)	36
Holders or stands for watches — (*see clocks*)	83
Holding articles for sale in shop windows — (*see show cases*)	378
Holding the skirts of ladies' dresses — (*see petticoats*)	301
Homogeneous metal — (*see metals*)	240
Hoods and dashes of carriages — (*see carriages*)	62
Hooks and chains — (*see chains*)	78
Hooping or binding bales — (*see presses*)	322
Hoops and rings — (*see chains*)	78
Hoops and tires for wheels — (*see wheels for carriages*)	462
Hoops or steels for crinolines — (*see petticoats*)	301
Hops,–treating — (*see brewing*)	49
Horn and ivory — (*see bones*)	35
Horns for holding powder — (*see gunpowder*)	190
Horse boxes — (*see stables*)	402
Horse cloths and harness — (*see harness*)	198
Horse hoes and scarifiers — (*see ploughing*)	317
Horse power — (*see motive-power*)	273
Horse shoes, shoeing horses	210
Horsemen's stirrups — (*see harness*)	198
Horticulture, conservatories, vineries, flower stands, lawn mowing, training plants	211
Hose and flexible tubing — (*see pipes*)	308
Hose or stockings — (*see shirts*)	375
Hot water dishes — (*see plates*)	316
Hothouses and conservatories — (*see horticulture*)	211
Housemaids' pails — (*see cisterns*)	81
Houses of entertainment,–constructing — (*see building*)	54
Hulling grain and seeds — (*see thrashing*)	429
Hulls of ships — (*see ship building*)	369
Hurdles — (*see fences*)	141
Hydrants — (*see valves*)	437
Hydraulic lifts — (*see hoists*)	208
Hydraulic motive-power — (*see water-wheels*)	450
Hydraulic presses — (*see presses*)	322
Hydraulic pumps — (*see pumps*)	347
Hydro-carbon lamps — (*see lamps*)	221
Hydro-carbons, hydro-carburets — (*see oils of tar*)	284
Hydro-electricity — (*see electricity*)	131
Hydrometers — (*see thermometers*)	427
Hydropults — (*see pumps*)	347
Hydrostatic presses — (*see presses*)	322
Hygienic apparatus — (*see medicines*)	238
Hygrometic condition of the atmosphere,–ascertaining the — (*see thermometers*)	427
Ice safes and wine coolers — (*see condensing*)	96
Icehouses — (*see building*)	54
Iceing and cooling liquids — (*see condensing*)	96
Igniting cigars — (*see tobacco*)	432
Illuminating gases — (*see gas*)	174
Illuminating lighthouses — (*see buoys*)	58
Illuminating or lighting — (*see lamps*)	221
Illusory exhibitions — (*see dramatic effects*)	123
Imitation cameos,–producing — (*see embossing*)	135
Imitation inlaid work — (*see inlaying*)	213
Imitation ivory — (*see bones*)	35
Imitation woods — (*see wood*)	473
Imitations of malachite — (*see metallic salts*)	239
Imparting heat — (*see heating*)	201
Impervious to air,–rendering fabrics — (*see waterproof fabrics*)	448
Impervious to moisture,–rendering fabrics — (*see waterproof fabrics*)	448
Implements for tilling land — (*see ploughing*)	317
Impregnating the air with disinfectants — (*see disinfecting*)	114
Impregnating wood with preservative substances — (*see preserving wood*)	319
Impressing or marking railway tickets — (*see stamps*)	403
Impressing or printing — (*see printing*)	326
Improving the condition of damp wheat — (*see thrashing*)	429
Impure air,–removing — (*see ventilation*)	441
Increasing and regulating draft — (*see air supplying*)	10
Increasing the mechanical power of steam — (*see steam-boilers*)	405
Incrustation and oxidation,–preventing — (*see oxidation*)	289
Indexing machines for looms, &c. — (*see measuring length*)	236
India-rubber,–treating and vulcanizing — (*see gutta-percha, treating*)	191
India-rubber as applied in various manufactures — (*see gutta-percha as applied*)	191
Indicating excess of heat or cold — (*see thermometers*)	427
Indicating speed and power — (*see governors*)	182
Indicating the names of streets — (*see show cases*)	378
Indicating water level — (*see gauges*)	180
Indicating weight — (*see weighing*)	462
Indicators for bells — (*see bells*)	32
Indigestion,–treatment of — (*see medicines*)	238
Induced currents of electricity — (*see electricity*)	131
Inflammable gases — (*see gas*)	174
Inflating balloons — (*see aërial machines*)	7
Infusing coffee, tea, &c. — (*see coffee*)	93
Infusing drugs — (*see medicines*)	238

	Page
Infusing or applying colours in dyeing — (*see dyeing*)	126
Ingot moulds — (*see casting metals*)	71
Inhaling apparatus — (*see medicines*)	238
Injecting water for supply of steam-boilers — (*see steam-boilers*)	411
Inking printing rollers — (*see printing*)	326
Inks and inkstands	213
Inlaid flooring for buildings — (*see building*)	54
Inlaying; inlaid work	213
Instantaneously detaching ships' boats — (*see ships' boats*)	374
Instruments for drawing — (*see copying*)	100
Instruments for telegraphic purposes — (*see telegraphs*)	423
Instruments for writing — (*see pens*)	300
Instruments used in surgery — (*see surgery*)	422
Insulating telegraphic wires — (*see telegraphs*)	423
"Intermediate" and slubbing frames — (*see spinning*)	393
Invalid carriages — (*see surgery*)	422
Invalid drinking cup — (*see medicines*)	238
Invalid furniture — (*see surgery*)	422
Iodine and compounds — (*see alkalies*)	24
Iron — (*see metals*)	240
Iron knees and riders for ships' fastenings — (*see ship-building*)	369
Iron safes and strong rooms — (*see locks*)	228
Ironing and mangling — (*see mangling*)	232
Irrigation — (*see watering*)	447
Ivory and horn — (*see bones*)	35
Jack and slubbing frames — (*see spinning*)	393
Jackets or swimming belts — (*see buoys*)	58
Jacks for roasting and baking — (*see cooking*)	99
Jacks used for raising weights — (*see hoists*)	208
Jacquard apparatus — (*see weaving*)	455
Jams — (*see preserving food*)	320
Jars and bottles — (*see bottles*)	42
Jellies and jams — (*see preserving food*)	320
Jewellery, lockets, brooches, bracelets, watch chains, swivels and keys	213
Joining, jointing, coupling; pipe joints, railway joints, furniture joints and hinges; packing for joints	215
Journals of running shafts — (*see axles*)	26
Juice of the sugar-cane — (*see sugar*)	420
Jute,–heckling, carding, spinning — (*see spinning*)	393
Keeping the substance of eggs fresh and sweet — (*see preserving food*)	320
Keyed musical instruments — (*see musical instruments*)	274
Keyless watches — (*see clocks*)	83
Keys for clocks and watches; clock lines — (*see clocks*)	83
Keys for door and other locks — (*see locks*)	228
Kilns — (*see ovens*)	288
Kindling fires — (*see fuel*)	162
Kitchen ranges — (*see fire-places*)	155
Kneading-machines for dough and bread making — (*see bread*)	46
Knee caps used in surgery — (*see surgery*)	422
Knickerbockers or leggings — (*see boots*)	36
Knitting machines, frames for knitting — (*see weaving*)	459
Knives, forks, spoons, scissors, shears; cleaning knives, forks and spoons; nut and lobster crackers	219
Knobs and handles for doors — (*see doors*)	119
Knobs for cupboards — (*see furniture*)	171
Labels and tickets, labelling and ticketing — (*see stamps*)	403
Lace and net machines — (*see weaving*)	459
Lacing boots and shoes — (*see boots*)	36
Lacing stays — (*see petticoats*)	301
Lacquering; glazes and lacquer — (*see painting*)	291
Ladders and scaffolding — (*see building*)	54
Ladies' caps and cap-fronts — (*see hats*)	200
Ladies' collars — (*see petticoats*)	301
Ladles and spoons — (*see knives*)	219
Lamp black — (*see charcoal*)	79
Lamp burners — (*see gas-burners*)	177
Lamp-wicks — (*see candles*)	61
Lamps, lanterns, chandeliers, candlesticks; lamp furniture, glasses and shades; lighting, producing light	221
Land propulsion — (*see propelling*)	333
Land tilling or cultivating — (*see ploughing*)	317
Landing-stages and gangways — (*see docks*)	117
Lanterns — (*see lamps*)	221
"Lap" and "surface shaving" of leather — (*see leather*)	226
Lap machines used in spinning — (*see spinning*)	393
Latch bars for stirrups — (*see harness*)	198
Latches and bolts — (*see locks*)	228
Lathes for turning — (*see turning*)	433
Lawn mowing machines — (*see reaping*)	362
Lay figures for drawing,–automaton — (*see copying*)	100
Laying telegraphic wires, submarine cables, &c. — (*see telegraphs*)	423
Leashes or slips for dogs — (*see harness*)	198
Leather, skins and hides; artificial leather and parchment; currying, tanning, cutting and ornamenting leather	226
Leather driving belts — (*see straps*)	419
Leggings and gaiters — (*see boots*)	36
Lemon cake dishes — (*see plates*)	316
Lenses or optical glasses — (*see optical instruments*)	287
Lenses used in photography — (*see photography*)	303
Letter boxes or receivers — (*see boxes*)	44
Letter clips — (*see files and clips*)	144
Letter-press printing — (*see printing*)	326
Letters and manuscripts,–copying — (*see copying*)	100
Letters and parcels,–transmitting — (*see carriages*)	62
Letting off motion in looms for weaving — (*see weaving*)	461
Levelling and surveying; levels and theodolites — (*see compasses*)	95

	Page
Lever horse hoes — (*see ploughing*)	317
Levers for railway switches — (*see railways*)	355
Lids or covers for saucepans — (*see cooking*)	99
Life boats and rafts — (*see ship-building*)	369
Life or swimming belts — (*see buoys*)	58
Lift and force pumps — (*see pumps*)	347
Lifts, hydraulic lifts — (*see hoists*)	208
Light reflectors — (*see reflectors*)	362
Lighthouses — (*see buoys*)	58
Lighting and extinguishing light — (*see lamps*)	221
Lighting fires — (*see fuel*)	162
Lighting gas — (*see gas-burners*)	177
Likenesses or portraits — (*see pictures*)	305
Lime, limestone and cement — (*see cement*)	76
Linen buttons — (*see buttons*)	59
Lining and seating carriages — (*see carriages*)	62
Lining boxes and covering trunks —— (*see boxes*)	44
Lining glass, wood, stone, &c. — (*see coating*)	87
Lining metals with metals and other substances — (*see coating*)	84
Linings for gentlemen's wearing-apparel — (*see wearing-apparel*)	452
Linings for ladies' dresses — (*see petticoats*)	301
Linings for shoes — (*see boots*)	36
Links of chains — (*see chains*)	78
Lint and surgical bandages — (*see surgery*)	422
Liqueur frames — (*see plates*)	316
Liqueurs and wines — (*see brewing*)	49
Liquometers — (*see thermometers*)	427
Liquorice cakes — (*see confectionery*)	99
Liquors used for washing — (*see washing*)	445
Litharge, red lead — (*see painting*)	291
Lithographic printing — (*see printing*)	326
Loading and unloading carts — (*see carriages*)	62
Loading and unloading ships —— (*see ship-building*)	369
Lobster crackers — (*see knives*)	219
"Lock stitch" in sewing-machines —— (*see sewing*)	366
Lockets and solitaires — (*see jewellery*)	213
Locking carriage doors on railways — (*see railways*)	356
Locking doors and gates — (*see doors*)	119
Locks, latches, bolts, lock furniture; keys; safes, strong boxes, money tills	228
Locks for fire-arms — (*see fire-arms*)	149
Locomotion on land — (*see propelling*)	333
Locomotion on water — (*see propelling*)	330
Locomotive boilers — (*see steam-boilers*)	405
Locomotive steam-engines — (*see steam-engines*)	412
Logs and sounders — (*see measuring progress*)	237
Looking-glasses and frames	231
Looms for weaving — (*see weaving*)	455
Looped fabrics made in warp machinery — (*see weaving*)	459
Lowering and disengaging ships' boats — (*see ships' boats*)	374
Lowering and raising windows — (*see windows*)	469
Lowering heavy bodies — (*see hoists*)	208
Lozenges and confectionery —— (*see confectionery*)	99
Lubricating or oiling — (*see oiling*)	281
Lucerne plants — (*see plants*)	315
Lucifer matches — (*see matches*)	234
"Lygeum spartum" — (*see plants*)	315
Macadamized roads — (*see paving*)	299
Machinery breaks — (*see governors*)	182
Machinery wheels — (*see wheels for machinery*)	464
Madder — (*see dyes*)	128
Magazine repeating rifles — (*see fire-arms*)	149
Magazines or books — (*see books*)	36
Magenta colours — (*see dyes*)	128
Magic lanterns — (*see optical instruments*)	287
Magnesium — (*see metals*)	240
Magnetic telegraphs — (*see telegraphs*)	423
Magnetism, electro-magnetic apparatus — (*see electricity*)	131
Mail and despatch bags — (*see bags*)	30
Mail-catching apparatus for packages — (*see railways*)	356
Main streets of cities — (*see paving*)	299
Maintaining windows in any required position — (*see windows*)	469
Making button holes — (*see wearing-apparel*)	452
Malachite — (*see metallic salts*)	239
Malleable metals — (*see metals*)	240
Mallets used in croquet — (*see games*)	173
Malt and hops — (*see brewing*)	49
Mandrils for rollers — (*see cylinders*)	107
Mangers — (*see stables*)	402
Mangling, ironing, goffering, rouching	232
Manipulating threads in forming the "lock stitch" — (*see sewing*)	366
Mantel-pieces	233
Manufacture of castings — (*see casting metals*)	71
Manufacture of fabrics by cementation — (*see cemented fabrics*)	77
Manufacture of fabrics by felting — (*see fulling*)	163
Manufacture of fabrics by weaving —— (*see weaving*)	455
Manufacture of moulded articles — (*see casting plastic*)	74
Manufacture of spirituous liquors — (*see distilling*)	115
Manufacture of yarns — (*see spinning*)	393
Manufacture or finishing of fabrics —— (*see finishing*)	147
Manure; treating sewage	233
Manure and seed drills — (*see sowing*)	391
Manuscripts,-copying — (*see copying*)	100
Maps and globes	234
Marine lights — (*see buoys*)	58
Marine propulsion — (*see propelling*)	330
Marine steam-boilers — (*see steam-boilers*)	405
Marine steam-engines — (*see steam-engines*)	412
Marine vegetables — (*see plants*)	315
Markers for books — (*see books*)	36
Marking and stamping — (*see stamps*)	403
Marking or drawing materials — (*see copying*)	100
Marking progress in games — (*see games*)	173
Marking scales, rules, &c. — (*see compasses*)	95
Marquees or tents — (*see building*)	54
Masts and spars — (*see ship-building*)	369
Matches, fuses, pipe and cigar lights	234
Mathematical and astronomical instruments — (*see compasses*)	95

	Page
Matrices of metallic ores — (*see metals*)	240
Mats and rugs, matting — (*see upholstery*)	435
Mattresses and beds — (*see upholstery*)	435
Meal and flour manufacture — (*see grinding corn*)	185
Measuring and gauging length, size, and quantity; loom and other machine registers; appointment and date indicators; checks for cash taking	236
Measuring and registering progress of locomotives, carriages and ships; counting and mileage apparatus or turnstiles for cabs, &c.; logs and sounders	237
Measuring angles — (*see compasses*)	95
Measuring gas and fluids — (*see meters*)	259
Measuring intervals of time — (*see clocks*)	83
Measuring the specific gravity of liquids — — (*see weighing*)	462
Meat and other edibles,–preserving — (*see preserving food*)	320
Mechanical arrangements for steering — (*see steering*)	417
Mechanical power — (*see motive-power*)	273
Medals or coins — (*see coins*)	94
Medical treatment of animals; cleansing horses	238
Medicines and curative apparatus; medical baths; inhaling and respiratory apparatus	238
Mellowing spirituous liquors — (*see distilling*)	115
Melting metals — (*see metals*)	240
Melting sealing wax for sealing letters — (*see stamps*)	403
Mercuro-hydraulic motive-power—(*see motive-power*)	273
Mercury or quicksilver — (*see metals*)	240
Metallic cases for cartridges — (*see cartridges*)	68
Metallic casks — (*see casks*)	70
Metallic gauze — (*see wire*)	471
Metallic salts and oxides	239
Metallic stuffing boxes — (*see axles*)	26
Metals	240
Meters for gas and fluids	259
Metronomes — (*see musical instruments*)	274
Microscopes — (*see optical instruments*)	287
Mileage apparatus for cabs, &c. —— (*see measuring progress*)	237
Military outfits — (*see wearing-apparel*)	452
Milk,–treating and preserving — (*see preserving food*)	320
Mills for grinding corn, millstones — (*see grinding corn*)	185
Mineral oils — (*see oils of tar*)	284
Mineral waters and aërated liquids — (*see aërating*)	7
Mining; boring and blasting rock; raising coals, &c. from mines; draining, lighting and ventilating mines; sinking wells	260
Mirrors — (*see looking-glasses*)	231
Mixing, mashing, stirring, agitating	263
Mogador grass — (*see plants*)	315
Mohair,–combing and spinning — (*see spinning*)	393
Monumental tablets — (*see coffins*)	94
Mooring anchors — (*see anchors*)	26
Mordanting cloth and yarns — (*see dyeing*)	126
Mortar and cement — (*see cement*)	76
Mortars for pounding medicine — (*see medicines*)	238
Mortices, mortising and tenoning machines — (*see cutting*)	102
Mosaics,–inlaid — (*see inlaying*)	213
Motive-power machines; obtaining motive-power	265
Moulders' blacking — (*see charcoal*)	79
Moulding and casting metals — (*see casting metals*)	71
Moulding and casting plastic materials — (*see casting plastic*)	74
Mouldings and architectural ornaments	274
Mounting or hanging millstones — (*see grinding corn*)	185
Mounting photographs — (*see photography*)	303
Mounting saws for sawing — (*see cutting*)	102
Mounting telescopes and microscopes — (*see optical instruments*)	287
Mouthpieces for cigars — (*see tobacco*)	432
Moving heavy bodies — (*see hoists*)	208
Moving or drawing carriages— (*see propelling*)	333
Moving punkahs — (*see ventilation*)	441
Mowing machines — (*see reaping*)	362
Mules for spinning — (*see spinning*)	393
Multitubular hot water boilers — (*see steam-boilers*)	405
Musical instruments and notation; turning over leaves of music; metronomes; tuning instruments; transposing music	274
Myrtacean plants — (*see plants*)	315
Nails, spikes, bolts, rivets, screws, nuts, washers and dies; angle iron, T iron, iron knees	276
Names of railway stations,–indicating in trains — (*see railways*)	356
Names of streets,–indicating — (*see show-cases*)	378
Naphtha — (*see oils of tar*)	284
Naphthalic and chloroxynaphthalic acids — (*see acids*)	5
Naval architecture — (*see ship-building*)	369
Naves and axle-tree boxes — (*see axles*)	26
Navigable balloons — (*see aërial machines*)	7
Necklaces and bracelets — (*see jewellery*)	213
Neckties and scarfs — (*see shirts*)	375
Needle cartridges — (*see cartridges*)	68
Needle guns — (*see fire-arms*)	149
Needles and pins — (*see pins*)	308
"Negrohead" tobacco — (*see tobacco*)	432
Net or twist lace machines — (*see weaving*)	459
Nets for arresting the fall of heavy bodies — (*see accidents*)	1
Nets for taking game —— (*see destroying insects*)	113
Newspapers,–carriage of — (*see carriages*)	62
Nickel and copper — (*see metals*)	240
Night and day signals — (*see signals*)	380
Night lights — (*see lamps*)	221
Nitrate of baryta — (*see alkalies*)	24
Non-combustible,–rendering fabrics — (*see waterproof fabrics*)	448
Nose bags — (*see bags*)	30
Notation used in music — (*see musical instruments*)	274

	Page
Noxious exhalations,–preventing—(*see smoke*)	387
Numbering machines — (*see calculating*)	61
Numerical registering machines — (*see measuring length*)	236
Nursing apparatus and cradles — (*see furniture*)	171
Nut and lobster crackers — (*see knives*)	219
Nuts and washers — (*see nails*)	276
Oakum — (*see ropes*)	365
Oars and sculls — (*see propelling*)	330
Obliterating stamps — (*see stamps*)	403
Obtaining light — (*see lamps*)	221
Ocean steamers — (*see ship-building*)	369
Oil-cake — (*see food for cattle*)	160
Oil-cloths, floor-cloths, table covers and furniture covers; tarpauling, rick cloths, tent covers, awnings	279
Oil-proofing bricks — (*see bricks*)	51
Oiling or lubricating; materials for oiling; oil cans and lubricators	281
Oils from seeds, animal and vegetable oils, treating fatty and oily matters	283
Oils of tar, bitumen and resin; naphtha, paraffine, &c.; mineral oils, hydro-carbons, phosphorus	284
Ointment for sheep — (*see medical treatment*)	238
Oleaginous distillation — (*see distilling*)	116
Omnibuses — (*see carriages*)	62
Opening and closing valves — (*see valves*)	437
Opening bottles, removing stoppers — (*see bottles*)	42
Opening fibrous substances — (*see spinning*)	393
Opening windows — (*see windows*)	469
Opera glasses — (*see optical instruments*)	287
Operating wells — (*see watering*)	447
Operations in surgery — (*see surgery*)	422
Optical instruments; telescopes, microscopes, stereoscopes, lenses; optical illusions	287
Ores of metals — (*see metals*)	240
Organs and harmoniums — (*see musical instruments*)	274
Ornamental weaving — (*see weaving*)	455
Ornamenting bricks and tiles — (*see bricks*)	51
Ornamenting candles — (*see candles*)	61
Ornamenting walls — (*see building*)	54
Ornaments for personal wear — (*see jewellery*)	213
Outfits for the military—(*see wearing-apparel*)	452
Ovens and kilns	288
Overcoats and paletôts—(*see wearing-apparel*)	452
Overflow for sinks — (*see drains*)	121
Oxalic and acetic acids — (*see acids*)	5
Oxidation and incrustation,–preventing and removing	289
Oxides and metalic salts — (*see metallic salts*)	239
Oxygen gas — (*see gas*)	174
Packing and compressing — (*see presses*)	322
Packing and covering bottles — (*see bottles*)	42
Packing cases or boxes — (*see boxes*)	44
Packing for cylinders — (*see cylinders*)	107
Packing for joints — (*see joining*)	215
Packing for pipes — (*see pipes*)	308
Packing for pumps — (*see pumps*)	347
Packings for axles — (*see axles*)	26
Packings for pistons — (*see pistons*)	313
Paddle-wheels — (*see propelling*)	330
Pails and buckets — (*see cisterns*)	81
Painting, colouring and varnishing; paints, colours, varnishes, glazes and lacquer	291
Paletôts and overcoats — (*see wearing-apparel*)	452
Paliasses — (*see upholstery*)	435
Palm oils — (*see oils from seeds*)	283
Pan scale,–preventing formation of — (*see oxidation*)	289
Paper, pasteboard and papier mâché; paper hangings	294
Paper collars for gentlemen's wear — (*see shirts*)	375
Paper collars for ladies' wear — (*see petticoats*)	301
Paper holders or letter clips — (*see files and clips*)	144
Paper knives — (*see knives*)	219
Papier mâché — (*see paper*)	294
Parachutes — (*see aërial machines*)	7
Paraffine — (*see oils of tar*)	284
Paraffine candles — (*see candles*)	61
Paraffine lamps — (*see lamps*)	221
Parasols and sunshades — (*see umbrellas*)	434
Parcels,–delivery of — (*see carriages*)	62
Parchment and leather — (*see leather*)	226
Paring vegetables and fruit — (*see preserving food*)	320
"Parkesine" or compounds of pyroxyline — (*see oils of tar*)	284
Parrels or ships' parrels — (*see ships' rigging*)	374
Partitions of buildings — (*see building*)	54
Passing galvanic currents — (*see electricity*)	131
Paste or dough, pastry — (*see bread*)	46
Pasteboard — (*see paper*)	294
Pastilles of pasty materials—(*see confectionery*)	99
Pastimes and games — (*see games*)	173
Patched balls for fire-arms — (*see shot*)	376
Patten boards and clog soles — (*see boots*)	36
Paving, road-making and cleansing; pavements	299
Pearled or ornamented confectionery — (*see confectionery*)	99
Peas and beans,–shelling — (*see preserving food*)	320
Peat	300
Peeling potatoes, peeling or skinning almonds (*see preserving food*)	320
Pellicles of grain, seeds and rice,–removing — (*see thrashing*)	429
Pencil-cases, pencils — (*see pens*)	300
Pendents or gas pendents — (*see lamps*)	221
Penetrating wood with antiseptic fluids — (*see preserving wood*)	319
Pens, penholders, pencils and pencil-cases	300
Perambulators — (*see carriages*)	62
Perforating discs — (*see boring*)	39
Perfumery — (*see hair dressing*)	196
Perfuming and disinfecting—(*see disinfecting*)	114
Permanent way of railways — (*see railways*)	352
Pessaries — (*see surgery*)	422
Petroleum oils — (*see oils of tar*)	284
Petticoats, skirts, stays, crinolines, ruffles, collars and other like articles of ladies' attire; shawls	301
"Pharaoh's serpents" — (*see rockets*)	365

	Page
Phosphoric acid — (*see acids*)	5
Phosphorus — (*see oils of tar*)	284
Photography and photographic apparatus	303
Pianofortes — (*see musical instruments*)	274
Pickers for looms — (*see weaving*)	460
Pictures, portraits and miniatures; picture frames	305
Piercing or boring holes — (*see boring*)	39
Piers and harbours — (*see docks*)	117
Pig iron — (*see metals*)	240
Piggeries and cow sheds — (*see stables*)	402
Pigments or paints — (*see painting*)	291
Pile and terry fabrics — (*see weaving*)	458
Pile driving and drawing	306
Pillars, columns, posts, slabs, vases; statuary	306
Pillars for lamps — (*see lamps*)	221
Pincers — (*see vices*)	444
Pins and needles	308
Pipe lights — (*see matches*)	234
Pipes, tubes and syphons; tobacco-pipes; joining pipes	308
"Pirn" winding machines — (*see winding*)	466
Pistols, revolving pistols — (*see fire-arms*)	149
Pistons and packings for pumps — (*see pumps*)	347
Pistons and piston packings	313
Pitch — (*see tar*)	423
Pit-frame, crossent and carpenters' hand back saws — (*see cutting*)	102
Plain weaving — (*see weaving*)	455
Planes, planing metal, wood, &c. — (*see cutting*)	102
Planishing and smoothing surfaces — (*see grinding, sharpening*)	188
Plans, letters and manuscripts — (*see copying*)	100
Plant for railways — (*see railways*)	352
Plants, sea-weeds, &c.,–treatment of	315
Plaster and cement — (*see cement*)	76
Plastering walls and ceilings — (*see building*)	54
Plastic compositions — (*see casting plastic*)	74
Plates, dishes, cups and saucers; toast racks, cruet-frames	316
Plates for ships and forts — (*see fortifications*)	161
Plates or name plates — (*see show-cases*)	378
Platform weighing machines — (*see weighing*)	462
Playing on musical instruments — (*see musical instruments*)	274
Ploughing, digging, clod-crushing, land-rolling, harrowing; agricultural implements; tilling and cultivating land	317
Plugs and water taps — (*see valves*)	437
Plushes and velvets,–manufacture of — (*see weaving*)	458
Pneumatic motive-power—(*see air-engines*)	8
Pocket books — (*see books*)	36
Pocket lanterns — (*see lamps*)	221
Pockets for wearing-apparel — (*see wearing-apparel*)	452
Pointing and sharpening —— (*see grinding, sharpening*)	188
Pointing or tapering metallic rods, &c. — (*see metals*)	249
Pointing wire for pins — (*see pins*)	308
Points and switches on railways — (*see railways*)	355
Poles and rings for curtains — (*see upholstery*)	435
Polishing and grinding; polishing powders — (*see grinding, sharpening*)	188
Polishing knives and forks — (*see knives*)	219
Polishing or cleaning fruit — (*see preserving food*)	320
Pomfret cakes and lozenges — (*see confectionery*)	99
Pontoons — (*see bridges*)	52
Porcelain and earthenware — (*see earthenware*)	130
Portable chamber or receptacle for containing liquids — (*see casks*)	70
Portable forges — (*see furnaces*)	164
Portable invalid or bed tables — (*see surgery*)	422
Portable rooms or chambers — (*see building*)	54
Portable tables and seats — (*see furniture*)	171
Portable vehicle for children — (*see carriages*)	62
Porter and ale,–brewing — (*see brewing*)	49
Portfolios and albums — (*see books*)	36
Portmanteaus and trunks — (*see boxes*)	44
Portmonnaies — (*see purses*)	350
Portraits or likenesses — (*see pictures*)	305
Postage stamps,–perforating, damping, and obliterating — (*see stamps*)	403
Posts and pillars — (*see pillars*)	306
Potash and soda — (*see alkalies*)	24
Potatoes,–preserving and peeling — (*see preserving food*)	320
Pots and urns for tea and coffee — (*see coffee*)	93
Pots for annealing — (*see retorts*)	363
Pots for holding spills — (*see matches*)	234
Pots or caps for chimneys — (*see flues*)	157
Pottery and china — (*see earthenware*)	130
Pouches for holding tobacco — (*see tobacco*)	432
Pouring and decanting liquids — (*see bottles*)	42
Powder flasks and holders — (*see gunpowder*)	190
Power and speed indicators — (*see governors*)	182
Power looms for weaving — (*see weaving*)	455
Preparation for extinguishing fire — (*see fire-engines*)	154
Preparing meat for food — (*see preserving food*)	320
Preparing soil for vegetation — (*see ploughing*)	317
Preparing yarns for weaving — (*see weaving*)	454
Preservation of the hair — (*see hair-dressing*)	196
Preserving and hardening wood, metal, stone, skin and other substances	319
Preserving and preparing articles of food, cutting suet, peeling potatoes, dressing fruit, shelling peas, stoning raisins	320
Preserving and storing fluids — (*see casks*)	70
Preserving buildings from damp—(*see building*)	54
Preserving fermented liquors — (*see brewing*)	49
Preserving life and property in case of shipwreck — (*see buoys*)	58
Presses, compressing, packing	322
Pressing woven fabrics — (*see finishing*)	147
Preventing leakage of barrels — (*see casks*)	70
Preventing radiation or transmission of heat — (*see heating*)	201
Preventing smoke — (*see smoke*)	387
Preventing the opening of windows on the outside — (*see windows*)	469
Preventing the transmission of cold — (*see condensing*)	96
Preventing vessels or ships from sinking — (*see buoys*)	58

	Page
Preventing vibration in windows —— (*see windows*)	469
Prevention of accidents — (*see accidents*)	1
Prevention of forgery of bank cheques — (*see cheques*)	80
Priming and capping fire-arms — (*see fire-arms*)	149
Printing and transferring; type and other surfaces for printing; composing and distributing type	326
Printing colours — (*see dyes*)	128
Producing copies of writings — (*see copying*)	100
Producing printing surfaces — (*see printing*)	326
Producing raised patterns — (*see embossing*)	135
Producing sunk devices — (*see engraving*)	136
Production of electricity, galvanism and magnetism — (*see electricity*)	131
Production of photographic images — (*see photography*)	303
Projectiles for fire-arms — (*see shot*)	376
Propelling, driving, working; transmitting power and motion; converting movements	330
Protecting bottles and jars — (*see bottles*)	42
Protecting telegraph wires — (*see telegraphs*)	423
Protecting wall fruit trees — (*see horticulture*)	211
Public houses,–constructing — (*see building*)	54
Puddling metals — (*see metals*)	240
Puffing or goffering — (*see mangling*)	232
Pulley blocks used with rigging — (*see ships' rigging*)	374
Pulleys — (*see wheels for machinery*)	464
Pulleys for lifting and lowering weights — (*see hoists*)	208
Pulling jacks — (*see hoists*)	208
Pulp for paper — (*see paper*)	294
Pulverising corn and grain — (*see grinding corn*)	185
Pumps; pumping and raising water and other liquids; pump pistons and packings; ships' pumps; turbines; beer engines	347
Punching and forming holes — (*see boring*)	39
Punkahs — (*see ventilation*)	441
Purifying air in buildings, mines, ships, &c. — (*see ventilation*)	441
Purifying and clarifying liquids —— (*see filtering*)	146
Purifying coal gas — (*see gas*)	174
Purifying feed water of steam-boilers — (*see steam-boilers*)	410
Purifying metals — (*see metals*)	240
Purifying smoke — (*see smoke*)	387
Purses and fastenings	350
Putting twist into fibrous substances — (*see spinning*)	393
Putting up tobacco for smoking —— (*see tobacco*)	432
Pyrites — (*see metals*)	240
Pyroligneous acid — (*see acids*)	5
Pyrotechnic toys — (*see rockets*)	365
Quality and condition of substances,–ascertaining the — (*see testing*)	427
Quarries and mines — (*see mining*)	260
Quartz containing gold — (*see metals*)	240
Quicksilver or mercury — (*see metals*)	240
Rabbit traps — (*see destroying insects*)	113
Rabble or bar used in puddling iron — (*see metals*)	240
Racket and tennis balls — (*see games*)	173
Racks for toast — (*see plates*)	316
Radiation or transmission of heat,–preventing (*see heating*)	201
Rafts and surf boats — (*see ship-building*)	369
Rags and waste; separating fibres from fabrics	351
Railway signals — (*see signals*)	380
Railway tickets — (*see stamps*)	403
Railway wheels — (*see wheels for carriages*)	462
Railways and railway carriages	352
Raising and bending metals — (*see metals*)	249
Raising and lowering windows —— (*see windows*)	469
Raising and pumping water and other liquids — (*see pumps*)	347
Raising heavy bodies — (*see hoists*)	208
Raising ladies' dresses — (*see petticoats*)	301
Raising telegraph cables in deep water — (*see telegraphs*)	423
Ranges for cooking stoves — (*see fire-places*)	155
Reading in designs for jacquard machines — (*see weaving*)	455
Reaping, mowing, making hay	362
Reburning of animal charcoal — (*see charcoal*)	79
Receiving the thrust of screw propeller shafts — (*see propelling*)	330
Receptacles for securing property, safes — (*see locks*)	228
Receptacles or boxes for merchandise— (*see boxes*)	44
Receptacles or cases for cards — (*see card-cases*)	62
Receptacles or chambers for containing liquids — (*see casks*)	70
Reclining chairs— (*see furniture*)	171
Recording telegraphic communications — (*see telegraphs*)	423
Recovering submerged telegraphic cables — — (*see telegraphs*)	423
Rectifying and distilling spirits — (*see distilling*)	115
Red colouring matters — (*see dyes*)	128
Red lead — (*see painting*)	291
Reducing and shutting off steam — (*see steam-boilers*)	405
Reducing friable substances to powder — (*see grinding minerals*)	186
Reducing ores and melting metals — (*see metals*)	240
Reducing wheat, straw, cutting chaff — (*see food for cattle*)	160
Reducing wire for pins — (*see pins*)	308
Reed musical instruments — (*see musical instruments*)	274
Reeds of fog horns — (*see signals*)	380
Reeds used in weaving — (*see weaving*)	460
Reefing and furling sails — (*see ships' rigging*)	374
Reeling yarns — (*see winding*)	466
Refining metals — (*see metals*)	240
Reflectors for lamps; reflection of light	362
Refrigerating or cooling — (*see condensing*)	96
Refuse mixed fabrics — (*see rags*)	351

	Page
Registering atmospheric changes, direction of the wind, &c. — (*see thermometers*)	427
Registering distances travelled — (*see measuring progress*)	237
Registering speed of machinery — (*see measuring length*)	236
Registering time — (*see clocks*)	83
Regulating and working steam-engines — (*see steam-engines*)	412
Regulating draft — (*see air-supplying*)	10
Regulating heat — (*see heating*)	201
Regulating the flow and pressure of fluids — (*see valves*)	437
Regulators and burners for gas — (*see gas-burners*)	177
Regulators or governors — (*see governors*)	182
Reins and bridles — (*see harness*)	198
Relays and instruments for electric telegraphs — (*see telegraphs*)	423
Releasing horses from harness — (*see harness*)	198
Relief patterns,–producing — (*see embossing*)	135
Relieving slide valves of back pressure — (*see steam-engines*)	412
Removing corks from bottles — (*see bottles*)	42
Removing "fixing" agents in photographs — (*see photography*)	303
Removing noxious exhalations — (*see ventilation*)	441
Removing refuse from lawns — (*see horticulture*)	211
Removing sashes when required — (*see windows*)	469
Removing soot — (*see smoke*)	387
Rendering fabrics uninflammable — (*see waterproof fabrics*)	448
Repairing steam-boilers — (*see steam-boilers*)	405
Repairing tubes — (*see pipes*)	308
Representations of goods for advertising — (*see advertising*)	6
Reservoirs and tanks — (*see cisterns*)	81
Residues of metallic ores — (*see metals*)	240
Resin — (*see tar*)	423
Resinous distillation — (*see distilling*)	116
Resinous gums — (*see starch*)	404
Resinous oils — (*see oils of tar*)	284
Respirators — (*see medicines*)	238
Rests for turning lathes — (*see turning*)	433
Rests used when taking photographs — (*see photography*)	303
Retarding and stopping carriages — (*see breaks*)	47
Retorts and crucibles	363
Reversing and stopping machinery — (*see governors*)	182
Revivification of animal charcoal — (*see charcoal*)	79
Revolvers and breech-loaders — (*see fire-arms*)	149
Ribbon weaving, ribbon looms — (*see weaving*)	460
Ribs for umbrellas and parasols — (*see umbrellas*)	434
Rice,–cleaning and dressing — (*see thrashing*)	429
Rice starch — (*see starch*)	404
Rick cloths — (*see oil-cloths*)	279
Riddling or sifting — (*see sifting*)	378
Riders and iron knees for ships' fastenings — (*see ship-building*)	369
Riding bits and saddles — (*see harness*)	198
Rifles; rifle practice — (*see fire-arms*)	149
Rifling and punching, boring tools and punches — (*see boring*)	39
Rigging for ships, ships' rig — (*see ships' rigging*)	374
Rims for hats — (*see hats*)	200
Ringing bells, bell-pulls — (*see bells*)	32
Rings and hoops — (*see chains*)	78
Rinsing and washing fabrics, yarns, &c. — (*see washing*)	445
Rivets and nails — (*see nails*)	276
Rivetting metals — (*see metals*)	249
Road making and cleansing — (*see paving*)	299
Roasting coffee — (*see coffee*)	93
Roasting jacks — (*see cooking*)	99
Roasting metallic ores — (*see metals*)	240
Robes and robe linings — (*see wearing-apparel*)	452
Rockets; fireworks	365
Rods for pistons — (*see pistons*)	313
Rods for stair cloths — (*see upholstery*)	435
Roller-blinds — (*see window-blinds*)	468
Rollers and cylinders — (*see cylinders*)	107
Rollers for gardens — (*see horticulture*)	211
Rollers used in printing — (*see printing*)	326
Rolling and shaping metals — (*see metals*)	249
Rolling carded fibres — (*see spinning*)	393
Rolling land, clod crushers — (*see ploughing*)	317
Rolling leather — (*see leather*)	226
Rolling or sliding bridges — (*see bridges*)	52
Rolling stock of railways — (*see railways*)	356
Rolling woven fabrics — (*see finishing*)	147
Roofing and flooring buildings — (*see building*)	54
Roofing tiles — (*see bricks*)	51
Roofs of fire-hoxes — (*see furnaces*)	164
Rooms or chambers,–portable — (*see building*)	54
Root pulping — (*see food for cattle*)	160
Roots of the lucerne plant — (*see plants*)	315
Ropes, cordage, twine, oakum, wire ropes	365
Rotary engines, rotatory engines — (*see steam-engines*)	412
Rotating brushes — (*see brushes*)	53
Rotatory aërial swings — (*see toys*)	433
Rouching — (*see mangling*)	232
Roundabouts and swings — (*see games*)	173
Rounding shot — (*see shot*)	376
Roving fibrous substances, roving frames — (*see spinning*)	393
Rowlocks for boats — (*see propelling*)	330
Rubber compounds — (*see gutta-percha,–treating*)	191
Rubbing barley and other grain — (*see thrashing*)	429
Rubbing or rolling carded fibres — (*see spinning*)	393
Rudders and rudder breaks — (*see steering*)	417
Ruffles or frills for shirts — (*see shirts*)	375
Rugs, hearth rugs — (*see upholstery*)	435
Rulers used in writing and drawing — (*see copying*)	100
Sabots for projectiles — (*see shot*)	376
Saccharine solutions — (*see sugar*)	420

	Page
Saccharometers — (*see thermometers*)	427
Sacking for beds and sofas — (*see upholstery*)	435
Sacks and bags — (*see bags*)	30
Sad irons, smoothing irons — (*see mangling*)	232
Saddles for horses, saddle-trees — (*see harness*)	198
Safes and strong boxes — (*see locks*)	228
Safes for shop windows — (*see show-cases*)	378
Safety nets for arresting the fall of heavy bodies — (*see accidents*)	1
Safety plugs — (*see gauges*)	180
Safety valve regulators — (*see valves*)	437
Saggers used in potteries — (*see earthenware*)	130
Sails for mills; windmill sails — (*see air engines*)	8
Sails for ships, ships' rigging — (*see ships' rigging*)	374
Salt and saltpetre	366
Salts and oxides of metals — (*see metallic salts*)	239
Salts of alumina and potash — (*see alkalies*)	24
Sand and glass papers and cloths — (*see grinding, sharpening*)	188
Sandals or shoes — (*see boots*)	36
Sashes and windows — (*see windows*)	469
Satchels and bags — (*see bags*)	30
Satin white — (*see painting*)	291
Saucepans — (*see cooking*)	99
Saucers and cups — (*see plates*)	316
Sausages — (*see preserving food*)	320
Save-alls — (*see lamps*)	221
Saving fuel — (*see smoke*)	387
Saving life and property at sea — (*see buoys*)	58
Sawing machines, saws and saw-mills — (*see cutting*)	102
Scabbards or sheaths for swords and daggers — (*see bayonets*)	32
Scaffolding and ladders — (*see building*)	54
Scale or rust,-preventing formation of — (*see oxidation*)	289
Scales and webs for knives — (*see knives*)	219
Scales or rules for measuring — (*see measuring length*)	236
Scarfs and shawls — (*see petticoats*)	301
Scarfs for gentlemen — (*see shirts*)	375
Scarlet colours — (*see dyes*)	128
Scattering guano and artificial manures — (*see sowing*)	391
Scenic effects — (*see dramatic effects*)	123
Scent and smelling bottles — (*see hair-dressing*)	196
Scissors and shears — (*see knives*)	219
Scouring and cleansing fabrics, yarns, &c. — (*see washing*)	445
Scouring stones, marble and slate — (*see stone*)	418
Scrapers for roads — (*see paving*)	299
Scraps of leather — (*see leather*)	226
Screens, strainers and sieves — (*see sifting*)	378
Screens or blinds, fire-screens — (*see window-blinds*)	468
Screw drivers, screw-wrenches, screw-stocks — (*see vices*)	444
Screw gills or heckle frames — (*see spinning*)	393
Screw jacks — (*see hoists*)	208
Screw propellers — (*see propelling*)	330
Screws and screw blanks — (*see nails*)	276
Scribbling and carding fibrous substances — (*see spinning*)	393
Scrolls and frets — (*see mouldings*)	274
Scrotal and abdominal bandages — (*see surgery*)	422
Scutching fibrous substances — (*see spinning*)	393
Scythes — (*see reaping*)	362
Sea-going vessels — (*see ship-building*)	369
Sea walls — (*see docks*)	117
Sea-weeds and plants — (*see plants*)	315
Seating and lining carriages — (*see carriages*)	62
Seatings for valves — (*see valves*)	437
Seats and fittings for ships and boats — (*see ship-building*)	369
Seats of water-closets — (*see water-closets*)	447
Securing artifitial teeth in the mouth — (*see dentistry*)	113
Securing buttons to fabrics — (*see wearing-apparel*)	452
Securing corks or stoppers in bottles — (*see bottles*)	42
Securing doors when shut — (*see doors*)	119
Securing envelopes — (*see envelopes*)	137
Securing labels and invoices — (*see stamps*)	403
Securing rails to sleepers — (*see railways*)	352
Securing safes and strong rooms — (*see locks*)	228
Securing the ends of hoops in packing bales — (*see presses*)	322
Securing tubes in tube plates — (*see steam-boilers*)	405
Seed and manure drills — (*see sowing*)	391
Seed crushing — (*see grinding corn*)	185
Seeds and rice,-cleaning and dressing — (*see thrashing*)	429
Segmental grates for furnaces — (*see furnaces*)	164
Self-acting alarms — (*see signals*)	380
Self-acting boiler-feeders — (*see steam-boilers*)	411
Self-acting temples for looms — (*see weaving*)	460
Self-generating motive-power — (*see motive-power*)	273
Self-supplying pens — (*see pens*)	300
Separating and sorting — (*see sifting*)	378
Separating fibres from fabrics — (*see rags*)	351
Separating metals; smelting — (*see metals*)	240
Separating semolina from grain — (*see grinding corn*)	185
Serpents or fireworks — (*see rockets*)	365
Setting and distributing printing type — (*see printing*)	326
Sewage and manure — (*see manure*)	233
Sewers — (*see drains*)	121
Sewing and embroidering	366
Shackles or couplings for railway carriages — (*see railways*)	356
Shackles or links for chains — (*see chains*)	78
Shades and blinds for windows — (*see window-blinds*)	468
Shades for lamps — (*see lamps*)	221
Shaft sinking — (*see mining*)	260
Shafting; shafts and axles — (*see axles*)	26
Shafts for hoists — (*see hoists*)	208
Shafts for ventilation — (*see ventilation*)	441
Shale oils — (*see oils of tar*)	284
Shampooing by machinery—(*see hair-dressing*)	196
Shampooing horses — (*see harness*)	198
Shanks for buttons — (*see buttons*)	59
Shaping and trimming boots and shoes — (*see boots*)	36
Shaping hat and bonnet blocks — (*see hats*)	200

	Page
Shaping masts and spars — (*see ship-building*)	369
Shaping metals — (*see metals*)	249
Shaping or cutting stone, wood, cork, &c. — (*see cutting*)	102
Shares for ploughs — (*see ploughing*)	317
Sharpening and pointing — (*see grinding, sharpening*)	188
Shawls and scarfs — (*see petticoats*)	301
Shear legs for hoists — (*see hoists*)	208
Shearing horses — (*see harness*)	198
Shearing woven fabrics — (*see finishing*)	147
Shears and scissors — (*see knives*)	219
Sheaths or scabbards for swords and daggers — (*see bayonets*)	32
Sheds for cattle — (*see stables*)	402
Sheep ointment — (*see medical treatment*)	238
Sheep shears — (*see knives*)	219
Sheet metal — (*see metals*)	240
Sheets of india-rubber and gutta-percha — (*see gutta-percha,-treating*)	191
Shell and shot — (*see shot*)	376
Shelling peas and beans — (*see preserving food*)	320
Shells for buttons — (*see buttons*)	59
Shields for trunks or packages — (*see boxes*)	44
Shifting points on railways — (*see railways*)	355
Shifting wrenches — (*see vices*)	444
Ship and boat building, sheathing, repairing, working, loading and unloading; masts, spars, &c.	369
Ship propulsion — (*see propelling*)	330
Ship signals — (*see signals*)	380
Ships' boats,-lowering and disengaging	374
Ships' compasses — (*see compasses*)	95
Ships' logs and sounders — (*see measuring progress*)	237
Ships' pumps — (*see pumps*)	347
Ships' rigging and sails; reefing and furling sails; ships' rig	374
Shipwreck,-preserving life and property in case of — (*see buoys*)	58
Shirts, collars, wristbands, neck-ties, cravats, scarfs, drawers, hose	375
Shoe or sandal for swimming — (*see buoys*)	58
Shoeing horses, horse shoes — (*see horse shoes*)	210
Shoes and boots — (*see boots*)	36
Shop fronts, safes and counters — (*see show-cases*)	378
"Shortening motion" in machinery — (*see propelling*)	334
Shot, shell, bullets and other projectiles; torpedoes	376
Show-cases, exhibiting goods for sale, shop safes, fronts and counters; name plates, street name indicators	378
Shrinking textile fabrics — (*see finishing*)	147
Shutters — (*see windows*)	469
Shutting off and reducing steam — (*see steam-boilers*)	405
Shutting windows — (*see windows*)	469
Shuttle motion for looms — (*see weaving*)	455
Shuttles for sewing-machines — (*see sewing*)	366
Shuttles used in weaving — (*see weaving*)	460
Side propellers for ships — (*see propelling*)	330
Sieves — (*see sifting*)	378
Sifting, sorting and separating	378
Sights for rifles — (*see fire-arms*)	149
Signals, alarms, communicating apparatus	380
Signing or stamping letters — (*see stamps*)	403
Silicated alkaline inks — (*see inks*)	213
Silk,-throwing, twisting, spinning — (*see spinning*)	393
Silver argentiferous ores — (*see metals*)	240
Singeing woven fabrics — (*see finishing*)	147
Single line articulated railways — (*see railways*)	352
Single thread sewing-machines — (*see sewing*)	366
Sinking wells — (*see watering*)	447
Sinks and drains — (*see drains*)	121
Size and starch — (*see starch*)	404
Sizing, warping, beaming and preparing yarns for weaving	386
Skates — (*see boots*)	36
Skating halls — (*see building*)	54
Skein winding — (*see winding*)	466
Skelps for tubes — (*see pipes*)	308
Skids and breaks for carriages — (*see breaks*)	47
Skinning or peeling almonds — (*see preserving food*)	320
Skins, hides and leather — (*see leather*)	226
Skipping ropes and swings — (*see games*)	173
Skirts and crinolines — (*see petticoats*)	301
Slabs, pillars, columns — (*see pillars*)	306
Slate and stone — (*see stone*)	418
Slate quarrying — (*see mining*)	260
Sleepers and chairs for railways — (*see railways*)	352
Sleeve links and studs — (*see buttons*)	59
Slides for holding colours — (*see painting*)	291
Slides for magic lanterns — (*see optical instruments*)	287
Slides or holders for books — (*see books*)	36
Sliding gas pendents — (*see lamps*)	221
Sliding or rolling bridges — (*see bridges*)	52
Sliding railways — (*see railways*)	352
Sliding shutters — (*see windows*)	469
Slips or leashes for dogs — (*see harness*)	198
Slotting and punching — (*see boring*)	39
Slubbing frames — (*see spinning*)	393
Small ware weaving — (*see weaving*)	460
Smelling bottles — (*see hair-dressing*)	196
Smelting metals — (*see metals*)	240
Smiths' fires — (*see furnaces*)	164
Smoke prevention; burning and condensing smoke; saving fuel	387
Smoke vents — (*see flues*)	157
Smoking pipes and cigar holders — (*see tobacco*)	432
Smoothing and polishing surfaces — (*see grinding, sharpening*)	188
Smoothing irons — (*see mangling*)	232
Snuff and tobacco, snuff boxes — (*see tobacco*)	432
Soap	391
Socket hinges — (*see joining*)	275
Sockets for fencing — (*see fences*)	141
Sockets for pipes — (*see pipes*)	308
Socks, soles or feet protectors — (*see boots*)	36
Socks or points for ploughs — (*see ploughing*)	317
Soda and potash — (*see alkalies*)	24
Sofas — (*see furniture*)	171
Softening water — (*see filtering*)	146
Soles or feet protectors — (*see boots*)	36

	Page
Solidifying coal — (*see fuel*)	162
Solitaires and lockets — (*see jewellery*)	213
Solutions of pyroxyline or collodion — (*see photography*)	303
Solutions or liquors used for washing — (*see washing*)	445
Soot,–removing — (*see smoke*)	387
Sorting, sifting and separating — (*see sifting*)	378
Sounding alarms — (*see signals*)	380
Sounding machines and ships' logs — (*see measuring progress*)	237
Sowing seeds and distributing manure	391
Spaders or digging machines — (*see ploughing*)	317
Spanners and wrenches — (*see vices*)	444
Spars and masts — (*see ship-building*)	369
Spatterdashes and gaiters — (*see boots*)	36
Specific gravity of liquids — (*see weighing*)	462
Spectacles and opera glasses — (*see optical instruments*)	287
Speed indicators and governors — (*see governors*)	182
Speed registers for machines — (*see measuring length*)	236
Spherical rests for turning lathes — (*see turning*)	433
Spikes and bolts — (*see nails*)	276
Spindles; spindles and flyers	392
Spindles and knobs for doors — (*see doors*)	119
Spinning and preparing for spinning	393
Spiral springs — (*see springs*)	401
Spirit meters — (*see meters*)	259
Spirits of turpentine — (*see oils of tar*)	284
Spirituous liquors; distilling spirits — (*see distilling*)	115
Spittoons — (*see tobacco*)	432
Splints and surgical bandages — (*see surgery*)	422
Splints for matches — (*see matches*)	234
Splitting or cutting — (*see cutting*)	102
Spokes for carriage wheels — (*see wheels for carriages*)	462
Spooling yarns or threads — (*see winding*)	466
Spools or bobbins — (*see bobbins*)	35
Spoons and ladles, spoon rests — (*see knives*)	219
Spring bars of saddle-trees — (*see harness*)	198
Spring bell ringing instrument — (*see bells*)	32
Spring mattresses — (*see upholstery*)	435
Spring waist for boots — (*see boots*)	36
Springs	401
Squeezing and wringing fabrics, yarns, &c. — (*see washing*)	445
Stables, horse boxes, feeding troughs, cattle sheds	402
Stack covers, rick cloths — (*see oil-cloths*)	279
Stage scenery — (*see dramatic effects*)	123
Staining or colouring — (*see painting*)	291
Stair cloths, stair rods — (*see upholstery*)	435
Stairs or steps of buildings — (*see building*)	54
Stalls and tents — (*see building*)	54
Stamping medals or coins — (*see coins*)	94
Stamps, labels and tickets; perforating, damping, fixing and obliterating stamps; stamping and marking	403
Standards for fencing — (*see fences*)	141
Stands for flowers — (*see horticulture*)	211
Stands for wine glasses — (*see plates*)	316
Stands or holders for watches — (*see clocks*)	83
Stands or supports for barrels — (*see casks*)	70
Starch, size, glue, gum, gumaline	404
Starting and stopping machinery — (*see governors*)	182
Stationary steam engines — (*see steam-engines*)	412
Statuary — (*see pillars*)	306
Stays and stay busks — (*see petticoats*)	301
Steam and other boilers; cleansing and preventing incrustation of boilers; water-feeding apparatus for boilers	405
Steam cocks — (*see valves*)	437
Steam cultivation — (*see ploughing*)	317
Steam-engines (*stationary, locomotive and marine*)	412
Steam hammers — (*see hammers*)	197
Steam joints — (*see joining*)	215
Steam pumping machinery — (*see pumps*)	347
Steam ships — (*see ship-building*)	369
Stearic acid — (*see acids*)	5
Steel, steelifying iron — (*see metals*)	240
Steel crossings for railways — (*see railways*)	355
Steels or hoops for crinolines — (*see petticoats*)	301
Steeping timber in preservative fluids — (*see preserving wood*)	319
Steering or guiding ships, carriages, ploughs, &c.	417
Stench traps — (*see drains*)	121
Step arrangements for carriages — (*see carriages*)	62
Stereoscopes — (*see photography*)	303
Sticks for umbrellas and parasols — (*see umbrellas*)	434
Stiffeners or supports of stays — (*see petticoats*)	301
Stiffening fibres for brushes — (*see brushes*)	53
Stiffening or sizing yarns — (*see sizing*)	386
Stills — (*see distilling*)	116
Stirring and mixing — (*see mixing*)	263
Stirrups for riding — (*see harness*)	198
Stitching and sewing machines — (*see sewing*)	366
Stock for paper or paper stock — (*see paper*)	294
Stocking frames, manufacture of stockings — (*see weaving*)	459
Stocks for whips — (*see harness*)	198
Stomach diseases,–treatment of — (*see medicines*)	238
Stone and slate, artificial stone and marble; grindstones and millstones	418
Stone quarrying — (*see mining*)	260
Stones used in lithography — (*see printing*)	326
Stoning fruit — (*see preserving food*)	320
Stop cocks — (*see valves*)	437
Stop motion in looms for weaving — (*see weaving*)	461
Stoppers for fire-arms — (*see fire-arms*)	149
Stopping and reversing machinery — (*see governors*)	182
Stopping bottles, closing jars — (*see bottles*)	42
Stopping or retarding carriages — (*see breaks*)	47
Stopping pipes — (*see pipes*)	308
Stopping runaway horses — (*see harness*)	198
Stopping up boilers — (*see steam-boilers*)	405
Storing and preserving fluids — (*see casks*)	70

	Page
Storing corn, grain, seeds and rice — (*see threshing*)	429
Storm signals — (*see signals*)	380
Stoves — (*see fire-places*)	155
Stowing cargoes — (*see ship building*)	369
Straightening and bending metals —— (*see metals*)	249
Straightening and opening fibrous substances — (*see spinning*)	393
Strainers and sieves — (*see sifting*)	378
Straining paper pulp — (*see paper*)	294
Straps, driving bands and belts	419
Straps for harness — (*see harness*)	198
Straw and grasses — (*see plants*)	315
Street lamps and lanterns — (*see lamps*)	221
Street names,–indicating — (*see show-cases*)	378
Street railways—(*see railways*)	352
Streets, roads or ways — (*see paving*)	299
Strength of fluids,–testing or ascertaining — (*see thermometers*)	427
Strength of materials and substances,–ascertaining — (*see testing*)	427
Stretchers for umbrellas and parasols — (*see umbrellas*)	434
Stretching and drying — (*see drying*)	123
Stretching woven fabrics — (*see finishing*)	147
String and twine — (*see ropes*)	365
Stringing and tuning instruments —— (*see musical instruments*)	274
Strong boxes and safes — (*see locks*)	228
Strong rooms — (*see building*)	54
Studs and buttons — (*see buttons*)	59
Study of musical notation —— (*see musical instruments*)	274
Stuffing boxes and axles — (*see axles*)	26
Stuffing cushions, mattresses, &c. —— (*see upholstery*)	435
Stuffing skins for making sausages — (*see preserving food*)	320
Subduing restive horses — (*see harness*)	198
Submarine electric telegraph—(*see telegraphs*)	423
Submarine works, sea walls — (*see docks*)	117
Submerging telegraphic cables —— (*see telegraphs*)	423
Substitutes for coffee — (*see coffee*)	93
Substitutes for coke and animal charcoal — (*see charcoal*)	79
Substitutes for india-rubber and gutta-percha — (*see gutta-percha,–treating*)	191
Substitutes for leather — (*see leather*)	226
Substitutes for wood — (*see wood*)	473
Subterranean telegraphs — (*see telegraphs*)	423
Suction and force pumps — (*see pumps*)	347
Suet,–cutting or mincing — (*see preserving food*)	320
Sugar and syrups	420
Sulphate of soda or alumina — (*see alkalies*)	24
Sulphur	421
Sulphurous and sulphuric acid — (*see acids*)	5
Sulphurous smoke — (*see smoke*)	387
Sunblinds for windows — (*see window-blinds*)	468
Sunk devices,–producing — (*see engraving*)	136
Sunshades and parasols — (*see umbrellas*)	434
Superheating — (*see heating*)	201
Supplying air, increasing draft — (*see air supplying*)	10
Supplying air for ventilation — (*see ventilation*)	441
Supplying cattle with food — (*see stables*)	402
Supplying furnaces with fuel — (*see furnaces*)	164
Supplying gas to burners — (*see gas-burners*)	177
Supplying lamps with oil — (*see lamps*)	221
Supplying oil to machinery — (*see oiling*)	281
Supplying water to steam-boilers — (*see steam-boilers*)	411
Supplying with water, irrigating — (*see watering*)	447
Supporting the arm in rifle shooting — (*see fire-arms*)	149
Supports for invalids — (*see surgery*)	422
Supports or beams for buildings — (*see building*)	54
Supports or stiffeners of stays—(*see petticoats*)	301
Surf boats and life rafts — (*see ship-building*)	369
Surface condensers — (*see condensing*)	96
"Surface shaving" of leather — (*see leather*)	226
Surfaces for printing — (*see printing*)	326
Surfaces for reflecting light — (*see reflectors*)	362
Surfacing glass — (*see glass*)	180
Surfacing veneers — (*see wood*)	473
Surgery, surgical instruments, splints and bandages; trusses for hernia; artificial limbs, invalid furniture	422
Surveying and levelling — (*see compasses*)	95
Suspending articles for sale in shop windows — (*see show cases*)	378
Suspending or hanging blinds — (*see window blinds*)	468
Suspension bridges and aqueducts —— (*see bridges*)	52
Sustaining and lowering ships' boats — (*see ships' boats*)	374
Swaging and forging metals — (*see metals*)	249
Sweeping and dusting brushes — (*see brushes*)	53
Sweeping streets, street brooms —(*see paving*)	299
Swimming belts and dresses — (*see buoys*)	58
Swings or exercising apparatus — (*see games*)	173
Switches and points on railways — (*see railways*)	355
Swivel snaps for harness chains—(*see harness*)	198
Swivels and keys for watches — (*see jewellery*)	213
Swivels for chains — (*see chains*)	78
Swords and daggers — (*see bayonets*)	32
Syphons — (*see pipes*)	308
Syrups — (*see sugar*)	420
T iron — (*see nails*)	276
Table covers — (*see oil-cloths*)	279
Table salt — (*see salt*)	366
Tables and chairs — (*see furniture*)	171
Tablets,–monumental — (*see coffins*)	94
Tablets or tickets — (*see stamps*)	403
Tackle for life buoys — (*see buoys*)	58
Tackle for raising and lowering weights —— (*see hoists*)	208
Tailors' trimmings — (*see wearing-apparel*)	452
Taking measurements for garments —— (*see wearing-apparel*)	452
Taking up and delivering mails and parcels in railways trains — (*see railways*)	352
Taking up motion in looms for weaving —— (*see weaving*)	461

	Page
Tanks and reservoirs — (*see cisterns*)	81
Tanning hides and skins — (*see leather*)	226
Tape legs or sizing machines — (*see sizing*)	386
Tapering the ends of rods, &c. — (*see grinding, sharpening*)	188
Tapering the ends of wires — (*see wire*)	471
Tapering wire for pins — (*see pins*)	308
Tapers — (*see candles*)	61
Tapestry — (*see upholstery*)	435
Taps and valves — (*see valves*)	437
Tar and resin	423
Tar oils — (*see oils of tar*)	284
Targets — (*see fire-arms*)	149
Tarpaulings and rick cloths — (*see oil-cloths*)	279
Tartaric and citric acids — (*see acids*)	5
Tea and coffee pots and urns — (*see coffee*)	93
Teaching — (*see calculating*)	61
Tearing rags — (*see rags*)	351
Teeth for files — (*see files and rasps*)	145
Teeth for hatchels or heckles — (*see spinning*)	393
Teeth of saws,–cutting — (*see cutting*)	102
Telegraphs (electric); telegraphic printing apparatus	423
Telescopes — (*see optical instruments*)	287
Tell-tales — (*see measuring length*)	236
Tellurians — (*see compasses*)	95
Temperatures,–ascertaining and indicating — (*see thermometers*)	427
Tempering and hardening metals —— (*see metals*)	240
Temples for looms — (*see weaving*)	460
Tennis and racket balls (*see games*)	173
Tenoning and mortising machines (*see cutting*)	102
Tent covers — (*see oil-cloths*)	279
Tents and stalls — (*see building*)	54
Terra cotta or vitreous stone — (*see stone*)	418
Terry and pile fabrics — (*see weaving*)	458
Testing the strength and quality of materials	427
Textile fabrics — (*see fabrics*)	139
Theodolites and levels — (*see compasses*)	95
Therapeutic apparatus — (*see medicines*)	238
Thermometers, barometers, hydrometers, liquometers, saccharometers, electro-meters; testing the strength of fluids; wind registers	427
Thrashing, winnowing, hulling, decorticating dressing, cleaning, drying, storing and preserving corn, grain, seeds and rice	429
Threading needles — (*see sewing*)	366
Threads and yarns	431
Throstles and mules — (*see spinning*)	393
Throwing and spinning silk — (*see spinning*)	393
Throwing in and out of gear —— (*see governors*)	182
Ties or hoop locks for bales — (*see presses*)	322
Ties or neckties — (*see shirts*)	375
Tightening packing rings of pistons —— (*see pistons*)	313
Tightening the ends of boiler tubes —— (*see steam-boilers*)	405
Tiles for roofing — (*see bricks*)	51
Tilling land — (*see ploughing*)	317
Tills and safes (*see locks*)	228
Timber and wood — (*see wood*)	473
Timekeepers or pieces — (*see clocks*)	83
Tips for umbrellas and parasols — (*see umbrellas*)	434
Tires used on carriage wheels —— (*see wheels for carriages*)	462
Toast racks — (*see plates*)	316
Tobacco and snuff; cigars, cigar-holders, pipe and cigar lighters, smoking-pipes; tobacco pouches	432
Tombstones and monumental tablets — (*see coffins*)	94
Tongues or reeds of fog horns — (*see signals*)	380
Tools for cutting — (*see cutting*)	102
Tooth powders, toothpicks — (*see dentistry*)	113
Toothed wheels — (*see wheels for machinery*)	464
Top or mouth piece for cigars — (*see tobacco*)	432
Top rollers used with spinning frames — (*see spinning*)	393
Topographs and theodolites — (*see compasses*)	95
Torpedoes, torpedo mines — (*see shot*)	376
Torrefying or heating — (*see heating*)	201
Torsion and resistance of threads,–ascertaining degree of — (*see testing*)	427
Towers of observation — (*see building*)	54
Town sewage — (*see manure*)	233
Toys	433
Traces, bridles and reins — (*see harness*)	198
Tracing and drawing — (*see copying*)	100
Traction-engines — (*see steam-engines*)	412
Traction of carriages, ploughs, &c. —— (*see propelling*)	333
Trailing of dresses along the ground,–preventing the — (*see petticoats*)	301
Training guns — (*see fire-arms*)	149
Training plants — (*see horticulture*)	211
Tramways — (*see railways*)	352
Transferring and printing — (*see printing*)	326
Transferring and raising weights —— (*see hoists*)	208
Transmission of cold,–preventing — (*see condensing*)	96
Transmitting letter bags and parcels to and from railways trains — (*see railways*)	352
Transmitting motion to machinery — (*see propelling*)	334
Transmitting signals — (*see signals*)	380
Transparant slides for magic lanterns — (*see optical instruments*)	287
Transporting furniture and goods —— (*see carriages*)	62
Transposing music — (*see musical instruments*)	274
Travelling bags — (*see bags*)	30
Trapping sewers — (*see drains*)	121
Traps for catching rabbits, vermin, &c. — (*see destroying insects*)	113
Travelling cranes — (*see hoists*)	208
Travelling fan for forcing currents of air — (*see air supplying*)	15
Traversers and guides — (*see propelling*)	334
Traversing or moving heavy bodies —— (*see hoists*)	208
Treads of steps or stairs — (*see building*)	54
Treating and fermenting beer, wine, &c. —— (*see brewing*)	49
Treating coal — (*see fuel*)	162
Treating fatty and oily matters —— (*see oils from seeds*)	283

	Page
Treatment of plants, seaweeds, &c. — (*see plants*)	315
Trimming and shaping boots and shoes — (*see boots*)	36
Trimmings for hats — (*see hats*)	200
Trimmings for ladies' dresses — (*see petticoats*)	301
Trimmings for wearing-apparel — (*see wearing-apparel*)	452
Troughs and galvanic batteries — (*see electricity*)	131
Troughs used for cattle — (*see stables*)	402
Trousers — (*see wearing-apparel*)	452
Trumpet-mouthed pipes — (*see pipes*)	308
Trunks and portmanteaus — (*see boxes*)	44
Trusses for hernia — (*see surgery*)	422
Tubes and syphons — (*see pipes*)	308
Tubes for gun barrels — (*see fire-arms*)	149
Tubular boilers — (*see steam-boilers*)	405
Tubular colums — (*see pillars*)	306
Tubular structures for lighthouses — (*see buoys*)	58
Tuning musical instruments — (*see musical instruments*)	274
Tunnels and drifts — (*see excavating*)	137
Turbines — (*see pumps*)	347
Turf or peat — (*see peat*)	300
Turning; lathes for turning	433
Turnip flies,-destroying — (*see destroying insects*)	113
Turnstiles for cabs, &c. — (*see measuring progress*)	237
Turntables for railways — (*see railways*)	355
Turpentine — (*see oils of tar*)	284
Tuyeres and dampers — (*see air supplying*)	10
Twine and cordage — (*see ropes*)	365
Twisting and doubling fibrous substances — (*see spinning*)	393
Twist-lace machines — (*see weaving*)	459
Tyeing yarns previous to dyeing — (*see dyeing*)	126
Type distributing and composing machines — (*see printing*)	326
Typographic inks — (*see inks*)	213
Typography, type and printing surfaces — (*see printing*)	326
Umbrellas, parasols, umbrella furniture; walking sticks	434
Uncoupling railway carriages — (*see railways*)	356
Unfermented malt liquors — (*see brewing*)	49
Unfixing the tubes of steam-boilers — (*see steam-boilers*)	405
Uninflammable,-rendering fabrics — (*see waterproof fabrics*)	448
Unintoxicating malt liquors — (*see brewing*)	49
Uniting and connecting — (*see joining*)	215
Uniting or sewing — (*see sewing*)	366
Unloading carts — (*see carriages*)	62
Unloading ships — (*see ship-building*)	369
Unlocking doors and gates — (*see doors*)	119
Unlocking railway carriage doors — (*see railways*)	356
Upholstery (*mattresses, beds, cushions, curtain and stair rods, cornice poles*); rugs, mats and matting	435
Upright pianofortes — (*see musical instruments*)	274
Urinals — (*see watercloseets*)	447
Urns for tea and coffee — (*see coffee*)	93
Utensils for cooking — (*see cooking*)	99
Utilizing the heat of steam — (*see steam-boilers*)	405
Utilizing waste healds for weaving — (*see weaving*)	460
Utilizing waste heat — (*see heating*)	201
Utilizing waste leather — (*see leather*)	226
Utilizing water-power — (*see waterwheels*)	450
Vacuum,-producing — (*see air supplying*)	15
Valves, taps, stop-cocks, plugs; regulating the flow and pressure of fluids	437
Vans, waggons and carts — (*see carriages*)	62
Vapour or smoke — (*see smoke*)	387
Vapour or steam generators — (*see steam-boilers*)	405
Varnishing, varnishes and lacquer — (*see painting*)	291
Varying movements in machinery — (*see propelling*)	334
Vases — (*see pillars*)	306
Vegetable charcoal — (*see charcoal*)	79
Vegetable food,-preparing and preserving — (*see preserving food*)	320
Vegetable oils — (*see oils from seeds*)	283
Vehicle for teaching children to walk — (*see carriages*)	62
Vehicles for giving assistance to invalids — (*see surgery*)	422
Vehicles for pigments — (*see painting*)	291
Vehicles or carriages — (*see carriages*)	62
Velocipedes — (*see carriages*)	62
Velocity and power regulators — (*see governors*)	182
Velvet weaving — (*see weaving*)	458
Veneers and veneering — (*see wood*)	473
Venetian blinds — (*see window-blinds*)	468
Vent pegs for casks — (*see casks*)	70
Ventilating blinds — (*see window-blinds*)	468
Ventilation; supplying and purifying air for buildings, mines, ships, carriages, &c.	441
Vermin traps — (*see destroying insects*)	113
Vessels or boxes for containing blacking — (*see boots*)	36
Vessels or casks — (*see casks*)	70
Vessels or navigable vessels — (*see ship-building*)	369
Vessels or ships of war — (*see fortifications*)	161
Vestas — (*see matches*)	234
Vests or waistcoats — (*see wearing-apparel*)	452
Vesuvians — (*see matches*)	234
Viaducts and aqueducts — (*see bridges*)	52
Vibration in sliding windows,-preventing — (*see windows*)	469
Vices, pincers, wrenches, drill-braces, screw-stocks and screw-drivers	444
Vinegar and acids — (*see acids*)	5
Vineries — (*see horticulture*)	211
Violet colouring matters — (*see dyes*)	128
Vitreous compounds — (*see glass*)	180
Vitreous stone or terra cotta — (*see stone*)	418

	Page
Volatile minerals oils — (*see oils of tar*)	284
Voltaic batteries — (*see electricity*)	131
Vulcanizing india-rubber— (*see gutta-percha,–treating*)	191
Wadding — (*see fulling*)	163
Wafers or pastilles of pasty materials — (*see confectionery*)	99
Waggons and carts — (*see carriages*)	62
Waistband buckles — (*see buttons*)	59
Waistcoats or vests — (*see wearing-apparel*)	452
Walking-sticks —(*see umbrellas*)	434
Walls and ceilings — (*see building*)	54
Warming buildings, imparting heat — (*see heating*)	201
Warp fabrics, warp machinery — (*see weaving*)	459
Warping yarns, beaming warps, warping-machines — (*see weaving*)	454
Wash basins — (*see baths*)	31
Washers used with metallic nuts — (*see nails*)	276
Washing, cleansing and wringing fabrics, yarns and materials	445
Washing coal gas — (*see gas*)	174
Washing coals — (*see fuel*)	162
Waste and rags— (*see rags*)	351
Waste leather — (*see leather*)	226
Watch chains, swivels and keys, —— (*see jewellery*)	213
Watches clocks and other time keepers — (*see clocks*)	83
Water bunkers, butts or tanks — (*see cisterns*)	81
Waterclosets, urinals and commodes	447
Water feeding apparatus for boilers — (*see steam-boilers*)	411
Water level indicators — (*see gauges*)	180
Water meters — (*see meters*)	259
Water plugs — (*see valves*)	437
Water spouts and gutters — (*see drains*)	121
Watering; supplying and distributing water; fountains and wells	447
Waterproof, fireproof and airproof fabrics, buildings, &c.; waterproofing, fireproofing and airproofing	448
Waterwheels and engines; hydraulic motive-power	450
Waterworks — (*see watering*)	447
Waving and curling hair — (*see hair-dressing*)	196
Waxing thread in sewing machines — (*see sewing*)	366
Ways, roads and streets — (*see paving*)	299
Wearing-apparel, military outfits; tailors' trimmings	452
Weaving, braiding, platting; preparing for weaving	454
Webs for knives — (*see knives*)	219
Wedging open of iron safes,–preventing the — (*see locks*)	228
Weeding land — (*see ploughing*)	317
Weft stop motions for looms — (*see weaving*)	461
Weft winding machines — (*see winding*)	466
Weighing-machines, scales, indicating weight	462
Weights,–raising and lowering — (*see hoists*)	208
Weights for chandeliers — (*see lamps*)	221
Welding and rolling metals — (*see metals*)	249
Wells, well sinking, well sinking tubes — (*see watering*)	447
Wet gas meters — (*see meters*)	259
Wharves, piers and harbours — (*see docks*)	117
Wheat and other grain,–thrashing and dressing — (*see thrashing*)	429
Wheat grinding — (*see grinding corn*)	185
Wheels for carriages; railway wheels; wheel tire, &c.	462
Wheels for machinery, cog wheels, pulleys, cams, &c.	464
Wheels for spinning, spinning-wheels — (*see spinning*)	393
Wheels for steering — (*see steering*)	417
Whey from curd,–separating — (*see churns*)	81
Whips and whip stocks — (*see harness*)	198
White lead, litharge — (*see painting*)	291
Wickets for cricket — (*see games*)	173
Willows — (*see plants*)	315
Winches and capstans — (*see hoists*)	208
Wind engines, windmills — (*see air engines*)	8
Wind registers — (*see thermometers*)	427
Winders for sewing-machines — (*see sewing*)	366
Winding, reeling and balling yarn and thread	466
Winding ribbons — (*see finishing*)	147
Winding strings on yarns previous to dyeing — (*see dyeing*)	126
Winding-up clocks and watches — (*see clocks*)	83
Windlasses — (*see hoists*)	208
Window blinds, sun blinds, fire-screens	468
Window curtains — (*see upholstery*)	435
Window safes — (*see show-cases*)	378
Window sills — (*see building*)	54
Windows and sashes; window frames and shutters	469
Wine,–manufacturing — (*see brewing*)	49
Wine and spirit glasses — (*see bottles*)	42
Wine glasses — (*see plates*)	316
Winnowing grain and seeds — (*see thrashing*)	429
Wipers for guns — (*see fire-arms*)	149
Wire gauze blinds — (*see window blinds*)	468
Wire-working; wire-ropes; telegraph cables	471
Wood and veneers; artificial wood	473
Wooden spills for lighting — (*see matches*)	234
Wool,–combing, spinning, twisting — (*see spinning*)	393
Work-boxes and dressing cases — (*see boxes*)	44
Working furnaces — (*see furnaces*)	164
Working guns — (*see fire-arms*)	149
Working in wire — (*see wire*)	471
Working level crossing gates on railways — (*see railways*)	352
Working metals — (*see metals*)	249
Working or driving machinery — (*see propelling*)	334
Working or getting coal — (*see mining*)	260
Working signals — (*see signals*)	380
Working stage scenery — (*see dramatic effects*)	123
Working steam-engines — (*see steam-engines*)	412
Working submarine cables — (*see telegraphs*)	423
Works of defence — (*see fortifications*)	161
Worsted,–carding and spinning — (*see spinning*)	393

	Page
Woven fabrics,–manufacture of—(*see weaving*)	455
Wrappers for bottles and jars — (*see bottles*)	42
Wrenches — (*see vices*) - - -	444
Wringing and washing fabrics, yarns, &c. — (*see washing*) - - - -	445
Wristbands for shirts — (*see shirts*) - -	375
Writing and copying; writing cases — (*see copying*) - - - - -	100
Writing instruments — (*see pens*) - -	300
Xylodine or gun cotton — (*see gunpowder*) -	190
Yards and spars for ships — (*see ship-building*)	369
Yarn spinning — (*see spinning*) - -	393
Yarn winding — (*see winding*) - -	466
Yarns and threads — (*see threads*) - -	431
Yeast,–drying — (*see brewing*) - -	49
Zincography — (*see printing*) - - -	326

SYNOPSIS.

Page

ACCIDENTS (*Prevention of*) - - - - - - - - - 1

ACIDS AND VINEGAR - - - - - - - - - - 5

ADVERTISING - - - - - - - - - - - - 6

AËRATING; AËRATED LIQUIDS; MINERAL WATERS; CARBONIC ACID GAS 7

AËRIAL MACHINES, BALLOONS - - - - - - - - 7

AIR, GAS AND WIND ENGINES AND MILLS; PNEUMATIC MOTIVE-POWER - 8

AIR SUPPLYING, BLOWING, EXHAUSTING; DRAFT AND VENTILATION - 10

I.—Supplying Air to Furnaces, Stoves, Lamps, &c.; Increasing and Regulating Draft; Tuyeres; Dampers; Chimney Wind Guards; Heating Blast - - - - - - - - - - 10

II.—Supplying Air in Cleansing, Thrashing and Dressing Grain and Seeds - - - - - - - - - - 14

III.—Admitting, Forcing and Exhausting Air for Manufacturing and other Purposes; Air-pumps, Bellows, Fans and other Blowers; Forcing Gas through melted Metal, &c. - - - - - - - 15

IV.—Ventilation; Supplying and Purifying Air for Buildings, Mines, Ships, Carriages, &c. - - - - - - - - 21

ALKALIES; ALKALINE AND EARTHY SALTS; SALTS OF ALUMINA; BARYTA, IODINE AND COMPOUNDS - - - - - - - - - 24

ANCHORS; MOORING ANCHORS - - - - - - - - 26

AXLES, SHAFTS, BEARINGS, JOURNALS, AXLE-BOXES, PACKINGS FOR AXLES; LUBRICATING AXLES, &c. - - - - - - - - 26

BAGS, BASKETS, SACKS, HOLDERS AND FASTENINGS - - - - - 30

BATHS AND BASINS, BATHING APPLIANCES - - - - - - 31

BAYONETS, DAGGERS, SWORD-HANDLES, SCABBARDS - - - - - 32

BELLS; ACTUATING BELLS - - - - - - - - - 32

BELTS, BRACES, GIRTHS AND BANDS - - - - - - - 33

	Page
Bleaching and Decolourising	34
Bobbins and Cop-tubes	35
Bones, Ivory and Horn; Carbonising Bones	35
Books, Albums, Portfolios, Book Covers, Book Slides or Holders; Book Binding	36
Boots, Shoes, Leggings, Skates; Cleaning Boots	36
Boring, Drilling, Rifling and Punching; Gimlets, Augers and Brace-bits	39
Bottles and Jars; Stoppers, Capsules and Corks; Stoppering, Closing and Opening Bottles and Jars; Cork-screws; Bottle-holders	42
Boxes, Trunks, Portmanteaus, Letter-boxes, Work-boxes, Dressing-cases, Canisters	44
Bread, Biscuits and Pastry; Kneading Machines; Bakers' Ovens	46
Breaks, Skids and Buffers for Carriages and Railways	47
Brewing, Fermenting, Manufacturing and Treating Beer, Wine, &c.; Yeast; Treating Malt and Hops	49
Bricks, Tiles and Building Blocks	51
Bridges, Viaducts and Aqueducts	52
Brushes and Brooms	53
Building, Plastering, Flooring and Roofing; Walls, Ceilings and Cornices; Tents; Ladders	54
Buoys, Swimming Belts, Dresses and Apparatus; Buoying and Diving; Preserving Life and Property in case of Shipwreck; Marine Lights	58
Buttons, Buckles, Studs, Sleeve-links and other Dress Fastenings	59
Calculating, Teaching	61
Candles; Candle and Lamp Wicks	61

Page

CARD-CASES - - - - - - - - - - - 62

CARRIAGES, OMNIBUSES, WAGGONS, CARTS, TRUCKS, VELOCIPEDES - - 62

CARTRIDGES AND CASES; GUN WADS - - - - - - - 68

CASKS AND BARRELS; CASK-STANDS; BUNGS - - - - - 70

CASTING AND MOULDING METALS; MANUFACTURE OF CASTINGS - - 71

CASTING AND MOULDING PLASTIC MATERIALS; MANUFACTURE OF MOULDED ARTICLES; PLASTIC COMPOSITIONS; MOULDING FUEL - - 74

CEMENT AND PLASTER - - - - - - - - - 76

CEMENTED AND FLOCKED FABRICS; ADHERING ORNAMENTS AND DEPOSITING METAL ON FABRICS - - - - - - - - - 77

CHAINS; CHAIN CABLES; HOOKS, HOOPS, RINGS - - - - - 78

CHARCOAL, COKE, CARBON, MOULDERS' BLACKING, LAMP BLACK - - 79

CHEQUES AND BANKERS' BILLS - - - - - - - - 80

CHLORINE AND CHLORIDES - - - - - - - - - 81

CHURNS; MAKING CHEESE AND BUTTER - - - - - - - 81

CISTERNS, RESERVOIRS, TANKS AND BUCKETS - - - - - - 81

CLOCKS, WATCHES AND OTHER TIMEKEEPERS; WATCH KEYS, CHAINS AND GUARDS - - - - - - - - - - - 83

COATING, COVERING, PLATING, SHEATHING - - - - - - 84

I.—Coating, Plating, Lining and Facing Metallic Surfaces with Metals or other Substances - - - - - - - - 84

II.—Coating, Plating, Lining and Facing Glass, Wood, Stone, Plastic Materials, Textile Fabrics, &c. - - - - - - - 87

III.—Coating, Sheathing and Facing Ships; Compositions for the purpose - - - - - - - - - - 90

IV.—Covering Rollers - - - - - - - - - 92

COFFEE AND COCOA; COFFEE-POTS AND TEA-URNS - - - - - 93

COFFINS, TOMBSTONES, MONUMENTAL TABLETS - - - - - - 94

Page

COINS AND MEDALS - - - - - - - - - - 94

COMBS - - - - - - - - - - - - 94

COMPASSES; MEASURING ANGLES; SURVEYING AND LEVELLING; MATHEMATICAL AND ASTRONOMICAL INSTRUMENTS - - - - - 95

CONDENSING, COOLING, FREEZING - - - - - - - - 96

CONFECTIONERY, LOZENGES, LIQUORICE CAKES - - - - - 99

COOKING AND APPARATUS USED IN COOKING - - - - 99

COPYING, TRACING, DRAWING AND WRITING - - - - - 100

CORK; CORKS AND BUNGS - - - - - - - - 101

CUTTING, SAWING, PLANING - - - - - - - 102

I.—Cutting, Sawing, Planing, &c. Metal, Stone, Wood, Cork and Slate - 102

II.—Cutting Paper, India Rubber and Tobacco; Cutting and Splitting Leather and Cloth - - - - - - - - 105

CYLINDERS, ROLLERS, DRUMS; COVERING ROLLERS - - - - 107

DENTISTRY; ARTIFICIAL TEETH, TOOTH-PICKS - - - - - 113

DESTROYING INSECTS; TRAPS FOR VERMIN, RABBITS, &c.; GAME NETS - 113

DISINFECTING, DEODORISING, PERFUMING - - - - - - 114

DISTILLING AND RECTIFYING - - - - - - - - 115

I.—Alcoholic Distillation; Manufacture of Spirituous Liquors - - 115

II.—Bituminous, Resinous and Oleaginous Distillation - - - 116

DOCKS, HARBOURS, BREAKWATERS, PIERS, LANDING-STAGES, CANALS, SEA-WALLS, SUBMARINE WORKS, WEIRS - - - - - - 117

DOORS AND GATES; DOOR FURNITURE - - - - - - 119

DRAINS, SEWERS, GUTTERS; DRAIN PIPES AND TILES; DRAINING; STENCH TRAPS - - - - - - - - - - - 121

DRAMATIC AND SCENIC EFFECTS, ILLUSORY EXHIBITIONS, STAGE SCENERY 123

DRYING AND STRETCHING; EXPRESSING MOISTURE - - - - 123

DYEING TEXTILE FABRICS, YARNS AND MATERIALS; FIXING COLOURS; MORDANTS - - - - - - - - - - 126

Page

DYES AND PRINTING-COLOURS - - - - - - - - 128

EARTHENWARE AND PORCELAIN; POTTERY KILNS; POTTERS' GLAZES; CERAMIC WARES; TERRA COTTA - - - - - - - 130

ELECTRICITY, GALVANISM AND MAGNETISM, AND THEIR APPLICATION - 131

ELECTRO-PLATING AND GALVANIZING; DEPOSITING METAL BY ELECTRICITY 135

EMBOSSING; PRODUCING RAISED PATTERNS - - - - - 135

ENAMELLING, ENAMELS - - - - - - - - - 136

ENGRAVING AND ETCHING; PRODUCING SUNK DEVICES - - - 136

ENVELOPES - - - - - - - - - - - 137

EXCAVATING AND DREDGING; TUNNELS AND EMBANKMENTS - - - 137

EXTRACTS AND DECOCTIONS - - - - - - - - 139

FABRICS; ELASTIC FABRICS - - - - - - - 139

FEATHERS; ARTIFICIAL FEATHERS AND FLOWERS - - - - 140

FENCES AND RAILINGS - - - - - - - - - 141

FIBRES (*Obtaining from Plants, Recovering from Manufactured Goods, Separating, Cleansing, Packing*) - - - - - - - - 141

FILES AND CLIPS; FORCEPS - - - - - - - - 144

FILES AND RASPS - - - - - - - - - 145

FILTERING, PURIFYING AND CLARIFYING LIQUIDS; FILTERS; DISTILLING WATER; SOFTENING WATER - - - - - - - 146

FINISHING, DRESSING, SINGEING, SHEARING, FOLDING AND PRESSING WOVEN FABRICS, YARNS, &c. - - - - - - - 147

FIRE-ARMS, GUNS, ORDNANCE, GUN-CARRIAGES, TARGETS, RIFLE-PRACTICE - 149

FIRE-ENGINES; FIRE-ESCAPES; EXTINGUISHING FIRES - - - 154

FIRE-PLACES, GRATES AND STOVES; FENDERS AND FIRE-GUARDS - - 155

FISHING; FISHING NETS, FISH HOOKS, HARPOONS - - - - 157

Page

FLUES AND CHIMNEYS; CHIMNEY TOPS; CURING SMOKY CHIMNEYS; CHIMNEY WIND GUARDS - - - - - - - - - 157

FOOD FOR CATTLE; FODDER-CUTTING; CHAFF-CUTTING; ROOT PULPING - 160

FORTIFICATIONS, BATTERIES, SHIPS OF WAR, GUN-BOATS, ARMOUR-PLATED SHIPS - - - - - - - - - - - - - 161

FUEL; TREATING COAL; PREPARING FIRE-WOOD; FIRE-LIGHTERS - - 162

FULLING AND FELTING; FELTED FABRICS; FLOCK, WADDING - - 163

FURNACES AND FIRE-BOXES; SUPPLYING FURNACES WITH FUEL - - 164

FURNITURE:—BEDSTEADS, TABLES, CHAIRS, CRADLES AND NURSING-APPARATUS; CASTERS; BEDSTEAD-BOTTOMS - - - - - - 171

GAMES AND EXERCISES; BILLIARDS AND BAGATELLE - - - - 173

GAS, GASOMETERS, HOLDERS AND RETORTS; OXYGEN - - - - 174

GAS AND OTHER BURNERS AND REGULATORS; GAS FITTINGS; LIGHTING GAS; PREVENTING ESCAPE OF GAS - - - - - - - 177

GAUGES, SAFETY PLUGS, WATER LEVEL INDICATORS - - - - 180

GLASS; APPLICATIONS OF GLASS - - - - - - - - 180

GLOVES - - - - - - - - - - - - - 182

GOVERNORS AND INDICATORS OF SPEED AND POWER FOR STATIONARY ENGINES AND MACHINERY; STARTING, STOPPING AND REVERSING APPARATUS; MACHINERY-BREAKS - - - - - - - 182

GRINDING AND CRUSHING CORN, GRAIN, SEEDS, &c.; DRESSING FLOUR; MILLSTONES; DECORTICATING GRAIN, GRINDING DRIED MEAT - - 185

GRINDING AND CRUSHING MINERALS, CLAY, FIBROUS PLANTS, &c.; BREAKING STONE - - - - - - - - - - 186

GRINDING AND SHARPENING; FLAT GRINDING AND POLISHING; GRINDING-SURFACES; EMERY; SAND AND GLASS PAPERS AND CLOTHS - - 188

GUNPOWDER AND EXPLOSIVE COMPOUNDS; POWDER FLASKS - - - 190

GUTTA-PERCHA AND INDIA-RUBBER (*Preparing, Treating, Vulcanizing*) - - 191

	Page
Gutta-percha and India-rubber as applied in various Manufactures	192
Hair-dressing and Perfumery	196
Hammers, Axes, Picks, Screw-drivers	197
Harness, Saddles, Bits, Blinkers, Stirrups and Whips; Harnessing, Releasing from Harness; Shearing, Grooming and Shampooing Horses	198
Hats, Caps, Bonnets, Ladies' Caps, Cap-fronts; Coverings for the Head, Head Dresses, Head Ornaments	200
Heating and Evaporating; Regulating Heat	201
Hoists, Cranes, Capstans, Windlasses; Raising and Lowering Heavy Bodies; Raising from Mines; Raising Sunken Ships; Moving Heavy Bodies	208
Horse-shoes, Shoeing Horses	210
Horticulture, Conservatories, Vineries, Flower Stands, Lawn Mowing, Training Plants	211
Inks and Inkstands	212
Inlaying; Inlaid Work	213
Jewellery, Lockets, Brooches, Bracelets, Watch Chains, Swivels and Keys	213
Joining, Jointing, Coupling; Pipe Joints, Railway Joints, Furniture Joints and Hinges; Packing for Joints	218
Knives, Forks, Spoons, Scissors, Shears; Cleaning Knives, Forks and Spoons; Nut and Lobster Crackers	219
Lamps, Lanterns, Chandeliers, Candlesticks; Lamp Furniture, Glasses and Shades; Lighting, Producing Light	221
Leather, Skins and Hides; Artificial Leather and Parchment; Currying, Tanning, Cutting and Ornamenting Leather	226
Locks, Latches, Bolts, Lock Furniture; Keys, Safes, Strong Boxes, Money Tills	228

Page

LOOKING GLASSES AND FRAMES - - - - - - - - 231

MANGLING, IRONING, GOFFERING, ROUCHING - - - - - - 232

MANTEL-PIECES - - - - - - - - - - - - 233

MANURE; TREATING SEWAGE - - - - - - - - 233

MAPS AND GLOBES - - - - - - - - - - - 234

MATCHES, FUSES, PIPE AND CIGAR LIGHTS - - - - - - 234

MEASURING AND GAUGING LENGTH, SIZE AND QUANTITY; LOOM AND OTHER MACHINE REGISTERS; APPOINTMENT AND DATE INDICATORS; CHECKS FOR CASH-TAKING - - - - - - - - - 236

MEASURING AND REGISTERING PROGRESS OF LOCOMOTIVES, CARRIAGES AND SHIPS; COUNTING AND MILEAGE APPARATUS OR TURNSTILES, FOR CABS, &c.; LOGS AND SOUNDERS - - - - - - - - 237

MEDICAL TREATMENT OF ANIMALS; CLEANSING HORSES - - - - 238

MEDICINES AND CURATIVE APPARATUS; MEDICAL BATHS; INHALING AND RESPIRATORY APPARATUS - - - - - - - - 238

METALLIC SALTS AND OXIDES - - - - - - - - 239

METALS - - - - - - - - - - - - - - 240

I.—Smelting, Extracting and Reducing Metals; Treating Ores; Refining, Tempering and Annealing Metals; Manufacture of Iron and Steel; Metallic Alloys - - - - - - - - - 240

II.—Casting and Moulding Metals; Moulds and Core-boxes - - 246

III.—Forging, Rolling, Hammering, Rivetting, Bending, Welding and Shaping Metals; Steam Hammers, Anvils - - - - - 249

IV.—Cutting, Planing, Punching, Boring and Filing Metals - - 253

V.—Plating and Coating Metallic Surfaces with Metal; Finishing and Ornamenting Metallic Surfaces - - - - - - 257

METERS FOR GAS AND FLUIDS - - - - - - - - 259

MINING; BORING AND BLASTING ROCK; RAISING COALS, &c. FROM MINES; DRAINING, LIGHTING AND VENTILATING MINES; SINKING WELLS - - - - - - - - - - - 260

MIXING, MASHING, STIRRING, AGITATING - - - - - - 263

	Page
MOTIVE-POWER MACHINES; OBTAINING MOTIVE-POWER	265
I.—Air, Gas and Wind Engines and Mills; Pneumatic Motive-power	265
II.—Steam-engines (*Stationary, Locomotive and Marine*)	266
III.—Water-wheels and Engines; Hydraulic Motive-power	271
IV.—Electro-magnetic Engines; Electro Motive-power	273
V.—Mechanical Motive-power, Horse-power	273
MOULDINGS AND ARCHITECTURAL ORNAMENTS	274
MUSICAL INSTRUMENTS AND NOTATION; TURNING OVER LEAVES OF MUSIC; METRONOMES; TUNING INSTRUMENTS; TRANSPOSING MUSIC	274
NAILS, SPIKES, BOLTS, RIVETS, SCREWS, NUTS, WASHERS AND DIES; ANGLE IRON, T IRON, IRON KNEES	276
OIL-CLOTHS, FLOOR-CLOTHS, TABLE-COVERS AND FURNITURE COVERS; TARPAULING, RICK-CLOTHS, TENT-COVERS, AWNINGS	279
OILING OR LUBRICATING; MATERIALS FOR OILING; OIL-CANS AND LUBRICATORS	281
OILS FROM SEEDS; ANIMAL AND VEGETABLE OILS; TREATING FATTY AND OILY MATTERS	283
OILS OF TAR, BITUMEN AND RESIN; NAPHTHA, PARAFFINE, &c.; MINERAL OILS; HYDRO-CARBONS, PHOSPHORUS	284
OPTICAL INSTRUMENTS, TELESCOPES, MICROSCOPES, STEREOSCOPES, LENSES; OPTICAL ILLUSIONS	287
OVENS AND KILNS	288
OXIDATION AND INCRUSTATION (*Preventing and Removing*)	289
PAINTING, COLOURING AND VARNISHING; PAINTS, COLOURS, VARNISHES, GLAZES AND LACQUER	291
PAPER, PASTEBOARD, AND PAPIER-MÂCHÉ; PAPER-HANGINGS	294
I.—Making Paper, Papier-mâché, Preparing Pulp, &c.	294
II.—Cutting, Folding and Ornamenting Paper and Papier-mâché; Applications of Paper	296
III.—Paper-hangings	298
PAVING, ROAD MAKING AND CLEANSING; PAVEMENTS	299
PEAT	300

Page

PENS, PENHOLDERS, PENCILS AND PENCIL-CASES - - - - - 300

PETTICOATS, SKIRTS, STAYS, CRINOLINES, RUFFLES, COLLARS AND OTHER LIKE ARTICLES OF LADIES' ATTIRE; SHAWLS - - - - - 301

PHOTOGRAPHY AND PHOTOGRAPHIC APPARATUS - - - - - 303

PICTURES, PORTRAITS AND MINIATURES; PICTURE-FRAMES - - - 305

PILE-DRIVING AND DRAWING - - - - - - - - 306

PILLARS, COLUMNS, POSTS, SLABS, VASES; STATUARY - - - 306

PINS AND NEEDLES - - - - - - - - - - 308

PIPES, TUBES AND SYPHONS; TOBACCO PIPES; JOINING PIPES - - 308

PISTONS AND PISTON PACKINGS - - - - - - - 313

PLANTS, SEA-WEEDS, &c. (*Treatment of*) - - - - - - 315

PLATES, DISHES, CUPS AND SAUCERS; TOAST RACKS, CRUET FRAMES - 316

PLOUGHING, DIGGING, CLOD-CRUSHING, LAND-ROLLING, HARROWING; AGRICULTURAL IMPLEMENTS; TILLING AND CULTIVATING LAND - - 317

PRESERVING AND HARDENING WOOD, METAL, STONE, SKIN AND OTHER SUBSTANCES - - - - - - - - - - 319

PRESERVING AND PREPARING ARTICLES OF FOOD, CUTTING SUET, PEELING POTATOES, DRESSING FRUIT, SHELLING PEAS, STONING RAISINS - - 320

PRESSES; COMPRESSING, PACKING - - - - - - - 322

PRINTING AND TRANSFERRING; TYPE AND OTHER SURFACES FOR PRINTING; COMPOSING AND DISTRIBUTING TYPE - - - - - - 326

PROPELLING, DRIVING, WORKING; TRANSMITTING POWER AND MOTION; CONVERTING MOVEMENTS - - - - - - - - - 330

I.—Propelling Ships; Locomotion on Water, Propel'ers, Paddle-wheels and Screws - - - - - - - - - 330

II.—Propelling Carriages; Locomotion on Land - - - - 333

III.—Driving Machinery, Ploughs and Pumps; Feed Motions, Guides Adjustments and Traversers; Transmitting Power and Motion; Cranks and Gearing - - - - - - - - 334

PUMPS; PUMPING AND RAISING WATER AND OTHER LIQUIDS; PUMP PISTONS AND PACKINGS; SHIPS' PUMPS; TURBINES; BEER ENGINES - 347

	Page
PURSES AND FASTENINGS	350
RAGS AND WASTE; SEPARATING FIBRES FROM FABRICS	351
RAILWAYS AND RAILWAY CARRIAGES	352
I.—Permanent Way, Rails, Rail-joints, Chairs and Sleepers; Portable Railways, Atmospheric Railways, Tramways	352
II.—Railway Switches, Points, Crossings and Turntables	355
III.—Railway Carriages; Coupling, Uncoupling and Altering Position of Carriages and Engines	356
IV.—Railway Buffers and Breaks; Retarding and Stopping Trains, Preventing Collisions, &c.	360
REAPING, MOWING, MAKING HAY	362
REFLECTORS FOR LAMPS; REFLECTION OF LIGHT	362
RETORTS AND CRUCIBLES	363
ROCKETS; FIREWORKS	365
ROPES, CORDAGE, TWINE, OAKUM, WIRE ROPES	365
SALT AND SALTPETRE	366
SEWING AND EMBROIDERING	366
SHIP AND BOAT BUILDING, SHEATHING, REPAIRING, WORKING, LOADING AND UNLOADING; MASTS, SPARS, &c.	369
SHIPS' BOATS (*Lowering and Disengaging*)	374
SHIPS' RIGGING AND SAILS; REEFING AND FURLING SAILS; SHIPS' RIG	374
SHIRTS, COLLARS, WRISTBANDS, NECKTIES, CRAVATS, SCARFS, DRAWERS, HOSE	375
SHOT, SHELL, BULLETS AND OTHER PROJECTILES; TORPEDOES	376
SHOW-CASES, EXHIBITING GOODS FOR SALE, SHOP SAFES, FRONTS AND COUNTERS; NAME PLATES, STREET NAME INDICATORS	378
SIFTING, SORTING, SEPARATING	378
SIGNALS, ALARMS, COMMUNICATING-APPARATUS	380

Page

SIZING, WARPING, BEAMING AND PREPARING YARNS FOR WEAVING - 386

SMOKE PREVENTION; BURNING AND CONDENSING SMOKE; SAVING FUEL 387

SOAP - - - - - - - - - - - - - 391

SOWING SEEDS AND DISTRIBUTING MANURE - - - - - 391

SPINDLES; SPINDLES AND FLYERS - - - - - - - 392

SPINNING AND PREPARING FOR SPINNING - - - - - - 393

I.—Opening, Ginning, Breaking and Cleaning Fibrous Materials - - 393

II.—Carding, Combing and Heckling Fibrous Materials; Making Cards - 395

III.—Roving, Slubbing, Spinning, Twisting, Doubling and Throwing Fibrous Materials - - - - - - - - 397

SPRINGS - - - - - - - - - - - - - 401

STABLES, HORSE-BOXES, FEEDING TROUGHS - - - - - - 402

STAMPS, LABELS AND TICKETS; PERFORATING, DAMPING, FIXING AND OBLITERATING STAMPS; STAMPING AND MARKING - - - - - 403

STARCH, SIZE, GLUE, GUM, GUMALINE - - - - - - - 404

STEAM AND OTHER BOILERS; CLEANSING AND PREVENTING INCRUSTATION OF BOILERS; WATER-FEEDING APPARATUS FOR BOILERS - - - 405

I.—Constructing Steam and other Boilers; Generating and Superheating Steam; Preventing Boiler Explosions - - - - 405

II.—Cleansing and Preventing Incrustation of Boilers; Purifying the Water - - - - - - - - - - 410

III.—Water-feeding Apparatus for Boilers; Heating Feed-water - - 411

STEAM-ENGINES (*Stationary, Locomotive and Marine*) - - - - - - 412

STEERING OR GUIDING SHIPS, CARRIAGES, PLOUGHS, &C. - - - - 417

STONE AND SLATE, ARTIFICIAL STONE AND MARBLE; GRINDSTONES AND MILLSTONES - - - - - - - - - - - - 418

STRAPS, DRIVING-BANDS AND BELTS - - - - - - - 419

SUGAR AND SYRUPS - - - - - - - - - - - 420

SULPHUR - - - - - - - - - - - - - 421

Page

SURGERY, SURGICAL INSTRUMENTS, SPLINTS AND BANDAGES, TRUSSES FOR HERNIA; ARTIFICIAL LIMBS; INVALID FURNITURE - - - 422

TAR AND RESIN - - - - - - - - - - 423

TELEGRAPHS (*Electric*); TELEGRAPHIC PRINTING APPARATUS - - - 423

TESTING THE STRENGTH AND QUALITY OF MATERIALS - - - - 427

THERMOMETERS, BAROMETERS, HYDROMETERS, LIQUOMETERS, SACCHAROMETERS, ELECTRO-METERS, TESTING THE STRENGTH OF FLUIDS; WIND REGISTERS - - - - - - - - - - 427

THRASHING, WINNOWING, HULLING, DECORATING, DRESSING, CLEANING, DRYING, STORING AND PRESERVING CORN, GRAIN, SEEDS AND RICE - 429

THREADS AND YARNS - - - - - - - - - - 431

TOBACCO AND SNUFF; CIGARS, CIGAR-HOLDERS, PIPE AND CIGAR LIGHTERS; SMOKING PIPES; TOBACCO POUCHES - - - - - - - 432

TOYS - - - - - - - - - - - - 433

TURNING; LATHES FOR TURNING - - - - - - - - 433

UMBRELLAS, PARASOLS, UMBRELLA FURNITURE; WALKING-STICKS - 434

UPHOLSTERY (*Mattresses, Beds, Cushions, Curtains, Curtain and Stair Rods, Cornice-poles*); RUGS, MATS AND MATTING - - - - - - 435

VALVES, TAPS, STOP-COCKS, PLUGS; REGULATING THE FLOW AND PRESSURE OF FLUIDS - - - - - - - - - - - 437

VENTILATION; SUPPLYING AND PURIFYING AIR FOR BUILDINGS, MINES, SHIPS, CARRIAGES, &c. - - - - - - - - - - 441

VICES, PINCERS, WRENCHES, DRILL-BRACES, SCREWSTOCKS AND SCREW-DRIVERS - - - - - - - - - - - 444

WASHING, CLEANSING AND WRINGING FABRICS, YARNS AND MATERIALS - 445

Page

WATER-CLOSETS, URINALS AND COMMODES - - - - - - 427

WATERING; SUPPLYING AND DISTRIBUTING WATER; FOUNTAINS AND WELLS - - - - - - - - - - - - 427

WATERPROOF, FIREPROOF AND AIRPROOF FABRICS, BUILDINGS, &c.; WATERPROOFING, FIREPROOFING AND AIRPROOFING - - - - 442

WATERWHEELS AND ENGINES; HYDRAULIC MOTIVE-POWER - - - 450

WEARING-APPAREL, MILITARY OUTFITS; TAILORS' TRIMMINGS - - 452

WEAVING, BRAIDING, PLATTING; PREPARING FOR WEAVING - - 454

I.—Sizing, Warping, Beaming and Preparing Yarns for Weaving - - 454

II.—Weaving Plain, Figured and Double Fabrics; Jacquards and Looms; Woven Fabrics - - - - - - - - - - 455

III.—Weaving Carpets, Velvets and other Pile and Terry Fabrics; Carpet Looms - - - - - - - - - - 458

IV.—Knitting; Lace-making; Stocking Frames; Warp Fabrics; Nets and Meshed Fabrics - - - - - - - - - 459

V.—Weaving Fringes, Ribbons; Producing Braid; Platting - - 460

VI.—Shuttles - - - - - - - - - - 460

VII.—Temples, Pickers, Healds and Reeds - - - - - 460

VIII.—Letting-off and Taking-up Motion; Stopping Looms - - - 461

WEIGHING-MACHINES, SCALES, INDICATING WEIGHT - - - - 462

WHEELS FOR CARRIAGES, RAILWAY WHEELS; WHEEL TIRE, &c. - - 462

WHEELS FOR MACHINERY; COG-WHEELS, PULLEYS, CAMS, &c. - - 464

WINDING, REELING AND BALLING YARN AND THREAD - - - - 466

WINDOW BLINDS, SUN BLINDS, FIRE SCREENS - - - - - 468

WINDOWS AND SASHES; WINDOW-FRAMES AND SHUTTERS - - - 469

WIRE-WORKING; WIRE-ROPES; TELEGRAPH CABLES - - - - 471

WOOD AND VENEERS; ARTIFICIAL WOOD - - - - - - 473

SUBJECT-MATTER INDEX

OF

PATENTS APPLIED FOR AND PATENTS GRANTED,

For the Year 1865.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS (*Prevention of*).			
Improved apparatus for preventing the explosion of steam-boilers.	305	3rd Feb. 1865	John Westerby.
Improvements in the miner's safety lamp - -	353	8th Feb. 1865	Richard Clarke Thorp. Philip Young.
Hydraulic presses - - - - -	417	14th Feb. 1865	George Whitton.
An improved means of securing the safety of railway passengers.	454	17th Feb. 1865	Coleman Defries.
Arrangements or apparatus to be applied to vehicles drawn by horses to restrain and prevent them from running away.	589	2nd March 1865	Peter Rothwell.
Revolving fire-arms - - - - - (*Communicated by Sebastien Amédée Noël and François Gueury.*)	659	9th March 1865	William Clark.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - -	688	11th March 1865	Charles Middleton Kernot. Nathaniel Symons.
Stoves or fire-places, ash-pans and fenders - - (*fender or dress protector.*)	826	23rd March 1865	James Clifford Morgan.
Gun locks - - - - - - -	838	24th March 1865	Daniel Arnold.
An improved safety tackle for raising and lowering heavy weights.	937	3rd April 1865	Pierre Joseph Jamet.
Improvements in or applicable to boilers furnished with pipes for the circulation of water for domestic purposes.	974	6th April 1865	John Brown.
Couplings for railway carriages, waggons, trucks and other vehicles.	1035	11th April 1865	Josiah Dadley.
Lamps for burning petroleum, naphtha or other mineral oils - - - - - -	1040	12th April 1865	Charles Boschan. Josef Bindtner. William Caffou.
An improved safety apparatus for steam-boilers -	1066	15th April 1865	John Minton Courtauld.
Construction of ships or vessels or cars to float on water.	1083	18th April 1865	William Bedder.
Means of covering railway trucks, vans, and other carriages.	1090	19th April 1865	William Riddell.
Apparatus for preventing explosions in steam-boilers.	1095	20th April 1865	John Hocking the younger.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS—*continued.*			
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*safety steam and water vessel.*) (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Safety lamps - - - - - - (*Communicated by Ferdinand Sack.*)	1274	8th May 1865	John Henry Johnson.
An improved safety stirrup for ladies' and gentlemen's riding saddles.	1285	9th May 1865	Samuel Hudson.
A combined safety valve regulator, pressure gauge, water indicator, alarm and "blow off" for steam generators. (*Communicated by Peter Riordan.*)	1305	11th May 1865	John Henry Johnson.
Apparatus for increasing the safety of railway passengers and trains, signalling, lighting and forming a communication between all parts of such trains, also for securing the carriage doors.	1492	31st May 1865	Richard Howarth.
Certain improvements in the means employed for the prevention of the ignition of matter capable of ignition or combustion.	1515	2nd June 1865	Herbert Allman.
Safety apparatus for steam boilers - - -	1523	2nd June 1865	James Shepherd.
Central fire breech-loading fire-arms - - -	1562	8th June 1865	Joseph Rock Cooper.
Improvements in safety valves, which improvements are also applicable to steam engines and other valves - - - - - - -	1575	9th June 1865	Charles Vernon. William Hodgkins.
Improvements in the permanent way of railways, and in locomotives applicable thereto.	1593	12th June 1865	William James Hixon.
Fuses for shells for ordnance - - - - (*Communicated by Frederika Schenkl.*)	1595	13th June 1865	George Haseltine.
An improved force dispeller or spring buffing apparatus.	1599	13th June 1865	William Jeffrey Hopkins.
An improved bit for subduing or stopping runaway or restive horses.	1617	15th June 1865	Jules François Dubois.
Apparatus for preventing collisions and other accidents on railways. (*Communicated by Eugène Vincenzi.*)	1621	15th June 1865	William Clark.
An improved fire-escape, applicable also to raising loads from mines and other purposes. (*Communicated by Xavier Philippart.*)	1666	21st June 1865	William Edward Gedge.
An improved apparatus for stopping railway trains.	1684	23rd June 1865	William Jeremiah Murphy.
Life boats - - - - - - (*Communicated by Louis Prosper Reynaud.*)	1688	24th June 1865	Henri Adrien Bonneville.
A new or improved apparatus for producing the magnesium light.	1696	24th June 1865	Charles Ross Bamber.
Improvements in railway carriages, which improvements are intended to neutralize the destructive effects arising from the collision of trains.	1746	30th June 1865	Louis Faure.
Lifts for transferring passengers, goods and heavy weights from the lower to the upper floors of hotels, club houses and other buildings with greater safety than heretofore.	1822	10th July 1865	David Cowan.
A new and improved mode of elevating ships or boats in the water, to enable them to pass over sand bars, shallows and the like, and for raising sunken vessels and docks.	1838	12th July 1865	Thomas Cato McKeen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS—*continued.*			
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Ventilators - - - - - - (*for preventing accidents by fire.*)	1866	18th July 1865	John Paul Baugh Le Patourel.
An improved apparatus for producing sound for signals, calls and alarms, adapted to use on vessels, railway trains, buoys, reefs, lighthouses and in other places of danger. (*Communicated by The Incorporated Marine Signal Company.*)	1898	20th July 1865	John Harkness Wray.
Apparatus for cleaning windows - - -	1907	21st July 1865	Charles Gardner.
Apparatus for preventing accidents on railways -	1945	26th July 1865	Jean Jacques Samuel Wenk. Alexandre Alphonse Mathieu.
Manufacture of anti-flammable starch - -	1946	26th July 1865	Tobiah Pepper.
Apparatus to be used in swimming - - - (*or for saving life.*) (*Communicated by Jean Baptiste Victor Chastel.*)	1982	31st July 1865	William Clark.
Improvements in the construction of railway carriages, and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
Railway electrical signal apparatus - -	2016	3rd Aug. 1865	William Henry Preece
Improvements in the sackings of metallic and other bedsteads, sofas, couches and other like articles, which said improvements may also be applied to the seats of chairs, railway carriages and other articles. (*Communicated by Thomas Tunnington.*)	2036	5th Aug. 1865	Henry Geering.
A self-acting coupling for railway carriages and wagons - - - - - -	2037	5th Aug. 1865	Thomas Smith. John Brook.
Improvements in preparing and treating gunpowder in order to render the same unexplosive and to protect it from damp.	2057	8th Aug. 1865	James Gale, jun^{r}.
Apparatus for giving immediate warning of undue heat, whether occasioned by fire, spontaneous combustion or any other causes, of leakage in ships, and of the sudden irruption of water, and of the accumulation of choke damp in mines.	2064	9th Aug. 1865	Charles West.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Improved safety couplings for railway carriages -	2159	22nd Aug. 1865	Frederick Charles Bryan Robinson.
Tanks and other receptacles for obtaining and transporting petroleum, naphtha and other oils and liquids, to prevent wastage by fire or filtration or evaporation, or hazard of life.	2185	25th Aug. 1865	George Washington Howard.
Machinery or apparatus for disengaging runaway horses from carriages and stopping them, so as to prevent accidents.	2214	29th Aug. 1865	Robert Thomas Holmes.
Improved steam-heating apparatus - - (*Communicated by Henry Bulkley.*)	2255	1st Sept. 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS—*continued.*			
Improved apparatus for promptly disconnecting horses from carriages and other vehicles.	2271	4th Sept. 1865	Pierre Marvaud.
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter McCallum.
Life rafts and surf boats - - - - (*Communicated by Edward Livingston Perry.*)	2273	4th Sept. 1865	Alfred Vincent Newton.
An improved method of fixing and unfixing the tubes of steam-boilers. (*Communicated by Daniel McDowell.*)	2284	6th Sept. 1865	Samuel Soutar.
Apparatus connected with safes for protecting valuables from fire - - - -	2318	9th Sept. 1865	Adolf Erik Nordenskiold. John William Smith.
An improved stirrup latch bar - - -	2320	11th Sept. 1865	Samuel Davis.
An improved safety valve for steam-boilers -	2323	11th Sept. 1865	Henry Hackett. Thomas Wrigley. Edmund Pearson.
Safety lamps for use in mines and other localities - (*Communicated by André Jean Olanier.*)	2370	16th Sept. 1865	Hen ri Adrien Bonneville.
An improved construction of projectile - - (*Communicated by Orazio Lugo.*)	2381	18th Sept. 1865	Alfred Vincent Newton.
Safety apparatus for cages and hoists - -	2383	19th Sept. 1865	Jubal Charlton Broadbent.
Improvements in railways and in the wheels for railways (*Communicated by Alexander Skelton.*)	2408	21st Sept. 1865	Alfred Vincent Newton.
Breech-loading fire-arms - - - (*Communicated by Samuel Norris.*)	2452	25th Sept. 1865	Alexander Prince.
Life rafts - - - - - -	2510	30th Sept. 1865	John Witherden Hurst.
A new or improved double-acting safety stirrup bar	2704	20th Oct. 1865	William Johns.
Fire-arms - - - - - - (*Communicated by Emile Della-Noce.*)	2800	31st Oct. 1865	Charles Chattaway.
Apparatus for effecting communications between the passengers, guard and engine drivers in railway trains, and for giving notice to engine drivers in cases of accidents. (*Communicated by Samuel Cornwallis Amesbury.*)	2845	4th Nov. 1865	Henry Radcliffe.
Making amalgams or alloys of metals - - (*preventing explosive action.*) (*Communicated by Henry Wurtz.*)	2903	11th Nov. 1865	William Edward Newton.
Safety apparatus for the prevention of accidents upon railways, by working signals or alarms in order to attract the attention of the guard or driver of the train. (*Communicated by Pierre François Roche.*)	2930	14th Nov. 1865	William Edward Newton.
An improved safety net to arrest the fall of persons or heavy bodies under circumstances of danger.	2969	18th Nov. 1865	Léon Edouard Laurency.
An improved nautical safety apparatus - -	3045	28th Nov. 1865	François Mols.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACCIDENTS—*continued.*			
Improved means of preventing water-pipes from bursting. (*Communicated by John Bevan.*)	3088	1st Dec. 1865	Longdon McMurdo Rogers.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes. (*preventing accidents.*)	3093	2nd Dec. 1865	Thomas Aldridge Weston.
Apparatus applicable for fire-escapes and builders' scaffolds.	3128	5th Dec. 1865	Edward Vagg.
Construction and arrangement of railway carriages, for the purpose of obviating or diminishing the bad consequences of collisions of or accidents to railway trains - - - -	3244	14th Dec. 1865	Henry Negretti. Joseph Warren Zambra.
Boilers or apparatus for generating steam - - (*securing from explosion.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
ACIDS AND VINEGAR.			
An improved method of treating apatite and other mineral phosphates. (*obtaining phosphoric acid.*) (*Communicated by Mr. John Oliver.*)	3	2nd Jan. 1865	Montague Richard Leverson.
Treating the pitch obtained in or resulting from the distillation of palm oil and other fats in candle making. (*obtaining fatty acids.*)	9	2nd Jan. 1865	Robert Irvine.
Filtering apparatuses - - - - (*vinegar, &c.*)	249	28th Jan. 1865	Victor Burg.
Manufacture of benzoic acid - - -	263	30th Jan. 1865	François Alexandre Laurent. John Casthelaz.
Improvements in the manufacture of citric and tartaric acids, and in the manufacture and treatment of citrate and tartrate of lime and analogous basic compounds, and in apparatus employed therefor.	307	4th Feb. 1865	Frederic Row.
Extracting turpentine and tar from resinous wood - (*and acetic acid.*)	403	13th Feb. 1865	Jean Antoine Pastorelly.
Manufacture of oxalic acid - - - -	449	16th Feb. 1865	François Alexandre Laurent. John Casthelaz. Nicolas Basset.
Obtaining sulphurous acid - - - -	729	15th March 1865	Astley Paston Price.
Manufacture of soluble and assimilable superphosphates of lime, by the application of phosphoric acid and acid phosphates. (*Communicated by Lucien Henri Blanchard and Théodore Chateau.*)	1161	25th April 1865	William Clark.
Improvements in brewing, distillation, the production of vinegar, and the extract of malt and other grain.	1263	5th May 1865	Solomon Bennett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ACIDS, &c.—*continued.*			
Obtaining certain compounds of nitrogen and of sulphur. (*sulphurous and sulphuric acid.*)	1385	19th May 1865	Thomas Richardson. Martin Diederich Rücker.
A new method of manufacturing oil from fatty matters or the residuum arising from the distillation of fatty matters, the manufacture of stearic acid, soap, and purification of oils. (*Communicated by Pierre Réné Beaumont.*)	1456	27th May 1865	Richard Archibald Brooman.
Improvements in the manufacture of naphthalic acid and chloroxynapthalic acid, and in dyeing and printing.	1605	13th July 1865	François Alexandre Laurent. John Casthelaz.
Obtaining jellies, syrups, drinks and other products from the tree Arbutus Unedo, known as the Arbutus. (*vinegar.*)	1649	20th June 1865	Philippe Mingaud.
Improvements in distilling and rectifying, and in the apparatus employed therein, parts of which improvements are applicable to steam generators. (*distillation of acids.*)	1662	20th June 1865	Evariste Vignier.
Treatment of hydrocarbon or paraffin oils - -	2008	3rd Aug. 1865	John William Perkins.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products from wood. (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
Manufacture of oxalic acid - - - -	2314	9th Sept. 1865	John Casthélaz. Nicolas Basset.
Apparatus used for calcining and roasting copper and other ores and substances containing sulphur (*obtaining sulphuric acid.*)	2350	14th Sept. 1865	Thomas Bell. Thomas Lesslie Gregson Bell.
Improvements in obtaining and applying sulphurous acid and in apparatus used therein.	2483	28th Sept. 1865	Rees Reece.
Apparatus for decomposing and superheating liquids, vapours, and gases. (*Communicated by Gustave Renard and Amedée Lipman.*)	2535	3rd Oct. 1865	Richard Archibald Brooman.
Improvements in the manufacture of chromates of ammonia and chromic acid, and in the preparation of nitrates of lime and baryta. (*Communicated by Félix Dehaut.*)	2702	19th Oct. 1865	William Clark.
ADVERTISING.			
A novel and improved means of advertizing -	31	5th Jan. 1865	George Howels Davies. John William Jones.
Protecting letters, numerals, and ornamental designs on glass.	1111	21st April 1865	David Simson Buchanan.
Improvements in the manufacture and application of devices and representations to tombstones, and in other public or exposed situations, for various purposes. (*for representations of goods for advertising.*)	1130	22nd April 1865	Alfred Grainger. Charles Mitchel Girdler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AËRATING; AËRATED LIQUIDS; MINERAL WATERS; CARBONIC ACID GAS.			
Preparing and keeping aërated beverages - -	39	5th Jan. 1865	Thomas Pickford.
Certain improvements in the manufacture of magnesium and its compounds. (*for making carbonic acid gas.*)	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.
Improvements in surface condensers for steam-engines, and in feeding boilers therefrom. (*aërating the water.*)	1669	21st June 1865	Charles Talbot Porter.
An improved machine for the manufacture of aërated waters.	1774	5th July 1865	William Saunders Parfitt.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for aërating water.*)	1780	6th July 1865	Hermann Beigel.
Improving draught beer, ale, porter, and cider -	1781	6th July 1865	Thomas Symes Prideaux.
An improved portable pocket gas generator or gazogene.	1795	7th July 1865	Augustin François Morelle.
An improved portable chamber or receptacle to contain aërated liquids, and the apparatus connected therewith by which the flow of such liquid is regulated and measured.	1923	25th July 1865	Max Benjamin Schumann.
Apparatus for supplying carbonic acid gas to casks and other vessels from which beer, wine and other fermented liquors are drawn.	2187	25th Aug. 1865	Charles Adolphus Watkins.
Improved means of securing corks in the necks of bottles.	2233	30th Aug. 1865	William Henry Postlethwaite Gore.
Arrangement and fittings of certain apparatuses for extinguishing fires. (*carbonic acid gas.*)	2373	16th Sept. 1865	François Carlier.
An improved method of making effervescing drinks	2377	18th Sept. 1865	Oliver Weldon Jeyes.
Certain improvements in the production and uses of carbonic acid gas.	2660	16th Oct. 1865	Albert Julius Mott.
An improved manufacture of aërated waters -	3204	12th Dec. 1865	Robert Hineson.
AËRIAL MACHINES; BALLOONS.			
Navigable balloons - - - - -	930	1st April 1865	Paul Haenlein.
A new apparatus or mechanism for flying through the air.	1037	12th April 1865	Gustave Wilhelm Rothleb.
Rotatory aërial swings - - - - -	1073	17th April 1865	James John Matthewson. Heinrich Louis Rudolph Schlee.
Fire-engines and hydraulic machines - - (*or aërial machines, inflating balloons, &c.*)	1953	28th July 1865	Leon Paul Laroche.
Improvements in the construction of flying toys, also applicable to other purposes. (*applicable to parachutes.*) (*Communicated by Charles Edmond François Couturier.*)	2208	28th Aug. 1865	Henri Adrien Bonneville.
Apparatus for aërial navigation - - - (*Communicated by Solomon Andrews.*)	3283	19th Dec. 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR, GAS AND WIND ENGINES AND MILLS; PNEUMATIC MOTIVE-POWER.			
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - - - (*or gas-engines.*)	166	19th Jan. 1865	William Cleveland Hicks.
Obtaining motive-power - - - -	331	6th Feb. 1865	John Isaac Watts.
Beam engines - - - - - -	468	18th Feb. 1865	James Grafton Jones.
Obtaining motive-power from aëriform fluids and from liquids.	501	22nd Feb. 1865	Matthew Piers Watt Boulton.
Machinery for obtaining motive-power from ammoniacal gas. (*Communicated by Joseph Flandrin.*)	611	4th March 1865	Richard Archibald Brooman.
Motive-power engines - - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Gas engines - - - - - -	731	15th March 1865	Hugh Smith.
An elementary power engine or a new or improved compressed air engine, for imparting power and motion to all kinds of machinery.	818	23rd March 1865	Anthony Bernhard, Baron Von Rathen.
Obtaining motive-power from aëriform fluids and from liquids.	827	23rd March 1865	Matthew Piers Watt Boulton.
Improvements in obtaining motive-power, parts of which improvements are applicable to the compressing of air and gases.	840	24th March 1865	Valentine Baker.
An improvement in engines worked by heated air or gases.	905	31st March 1865	John Pinchbeck.
Navigable balloons - - - - - -	930	1st April 1865	Paul Haenlein.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château, and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid.	982	6th April 1865	James Grafton Jones.
Certain improvements in gas engines - -	986	6th April 1865	Pierre Hugon.
Certain improvements in gas-ammoniacal engines -	1074	17th April 1865	Louis de St. Céran.
Machinery for obtaining motive-power - -	1301	10th May 1865	William Joseph Rice.
An improved metallic stuffing box - - -	1555	7th June 1865	Victor Duterne.
Caloric or heated air engines - - - (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Means and apparatus for generating motive-power - (*Communicated by Jules Gros.*)	1656	20th June 1865	William Clark.
Obtaining motive-power - - - - (*Communicated by Monsieur Charles Tellier.*)	1832	11th July 1865	Hector Auguste Dufrené.
Certain improvements in the method of obtaining motive-power and in apparatus connected therewith.	1910	22nd July 1865	Edmund Perré.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR ENGINES, &c.—*continued.*			
Obtaining motive-power when heated air or aëriform fluid is employed.	1915	22nd July 1865	Matthew Piers Watt Boulton.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases for gas engines.*)	1952	27th July 1865	Henry Sherwood.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Applying and utilising water power - - (*for working air engines.*)	1967	29th July 1865	Valentine Baker.
Obtaining motive-power by heat - - -	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Improvements in generating steam and in heating steam and aëriform fluids.	2051	7th Aug. 1865	Matthew Piers Watt Boulton.
Apparatus for obtaining and applying motive-power to various useful purposes - - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Improved machinery or apparatus for obtaining motive-power by expansion of air. (*Communicated by Abraham Désiré Cherfils.*)	2600	9th Oct. 1865	William Edward Gedge.
Caloric or hot-air engines - - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*gas-engine.*) (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
Improvements in obtaining motive-power and in apparatus employed therein.	3016	24th Nov. 1865	Jules Wauthier.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Improvements in propellers for ships and vessels, parts of which are applicable to windmill sails and fan blowers - - - -	3295	20th Dec. 1865	Frederick Lamb Hancock. Charles Lamb Hancock.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for making mill sails.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Improvements in obtaining motive-power, and in apparatus employed therein. (*from ammonia.*) (*Communicated by Jean Frot.*)	3358	28th Dec. 1865	Richard Archibald Brooman.

See also "GOVERNORS."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR, GAS AND WIND ENGINES AND MILLS; PNEUMATIC MOTIVE-POWER.			
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - - - (*or gas-engines.*)	166	19th Jan. 1865	William Cleveland Hicks.
Obtaining motive-power - - - -	331	6th Feb. 1865	John Isaac Watts.
Beam engines - - - - - -	468	18th Feb. 1865	James Grafton Jones.
Obtaining motive-power from aëriform fluids and from liquids.	501	22nd Feb. 1865	Matthew Piers Watt Boulton.
Machinery for obtaining motive-power from ammoniacal gas. (*Communicated by Joseph Flandrin.*)	611	4th March 1865	Richard Archibald Brooman.
Motive-power engines - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Gas engines - - - - - -	731	15th March 1865	Hugh Smith.
An elementary power engine or a new or improved compressed air engine, for imparting power and motion to all kinds of machinery.	818	23rd March 1865	Anthony Bernhard, Baron Von Rathen.
Obtaining motive-power from aëriform fluids and from liquids.	827	23rd March 1865	Matthew Piers Watt Boulton.
Improvements in obtaining motive-power, parts of which improvements are applicable to the compressing of air and gases.	840	24th March 1865	Valentine Baker.
An improvement in engines worked by heated air or gases.	905	31st March 1865	John Pinchbeck.
Navigable balloons - - - - - -	930	1st April 1865	Paul Haenlein.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château, and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid.	982	6th April 1865	James Grafton Jones.
Certain improvements in gas engines - -	986	6th April 1865	Pierre Hugon.
Certain improvements in gas-ammoniacal engines -	1074	17th April 1865	Louis de St. Céran.
Machinery for obtaining motive-power - -	1301	10th May 1865	William Joseph Rice.
An improved metallic stuffing box - - -	1555	7th June 1865	Victor Duterne.
Caloric or heated air engines - - - (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Means and apparatus for generating motive-power - (*Communicated by Jules Gros.*)	1656	20th June 1865	William Clark.
Obtaining motive-power - - - - (*Communicated by Monsieur Charles Tellier.*)	1832	11th July 1865	Hector Auguste Dufrené.
Certain improvements in the method of obtaining motive-power and in apparatus connected therewith.	1910	22nd July 1865	Edmund Perré.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR ENGINES, &c.—*continued.*			
Obtaining motive-power when heated air or aëriform fluid is employed.	1915	22nd July 1865	Matthew Piers Watt Boulton.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases for gas engines.*)	1952	27th July 1865	Henry Sherwood.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Applying and utilising water power - - (*for working air engines.*)	1967	29th July 1865	Valentine Baker.
Obtaining motive-power by heat - - -	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Improvements in generating steam and in heating steam and aëriform fluids.	2051	7th Aug. 1865	Matthew Piers Watt Boulton.
Apparatus for obtaining and applying motive-power to various useful purposes - - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Improved machinery or apparatus for obtaining motive-power by expansion of air. (*Communicated by Abraham Désiré Cherfils.*)	2600	9th Oct. 1865	William Edward Gedge.
Caloric or hot-air engines - - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*gas-engine.*) (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
Improvements in obtaining motive-power and in apparatus employed therein.	3016	24th Nov. 1865	Jules Wauthier.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Improvements in propellers for ships and vessels, parts of which are applicable to windmill sails and fan blowers - - - -	3295	20th Dec. 1865	Frederick Lamb Hancock. Charles Lamb Hancock.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for making mill sails.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Improvements in obtaining motive-power, and in apparatus employed therein. (*from ammonia.*) (*Communicated by Jean Frot.*)	3358	28th Dec. 1865	Richard Archibald Brooman.

See also "GOVERNORS."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, BLOWING, EXHAUSTING; DRAFT AND VENTILATION.			
I.—Supplying Air to Furnaces, Stoves, Lamps, &c.; Increasing and Regulating Draft; Tuyeres; Dampers; Chimney Wind Guards; Heating Blast.			
Lamps for burning the vapour of volatile fluids -	41	6th Jan. 1865	John Clowes Bayley. Daniel Campbell.
Improvements in furnaces, ash-pits and flues for the consumption of smoke and noxious products of combustion, and in the apparatus or means connected therewith.	51	6th Jan. 1865	James Robertson.
Improvements in puddling, heating, and other reverberatory furnaces used in the manufacture of iron and steel and for other purposes, which improvements may also be applied to steam-boiler furnaces.	173	20th Jan. 1865	John Hewes.
Petroleum and coal oil burners and glasses -	201	23rd Jan. 1865	Michael Alexander Dietz.
Furnaces for melting metals and smelting ores -	209	24th Jan. 1865	William Woodward. Robert Woodward. John Woodward. Adam Woodward, jun^{r}.
Lanterns for burning hydrocarbon fluids - -	256	28th Jan. 1865	Alexander Septimus Macrae.
Construction of caps or pots for the chimneys of dwelling houses and public buildings.	264	30th Jan. 1865	George Carter.
Improvements in effecting the conbustion of fuel in the furnaces of steam-boilers and the fire-places of stoves, and of gas in gas-burners, and in apparatus connected therewith.	311	4th Feb. 1865	Frank Clarke Hills.
Improvements in furnaces for smelting iron ores, commonly called blast furnaces, also in cupolas used in foundries, for rendering down or melting iron or other metals.	374	10th Feb. 1865	Evan Leigh.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Cupolas and blast furnaces - - - - -	397	11th Feb. 1865	Henry Houldsworth Grierson. John Macvicar Rigby.
Fire-places - - - - - - -	407	13th Feb. 1865	Edward Brown Wilson.
Improved apparatus for supplying with a constant and regular pressure air to burners for consuming or burning hydrocarbons for illuminating purposes.	408	13th Feb. 1865	Edward John Cowling Welch.
Furnaces for smelting or reducing ores and for melting metals - - - - - - - -	411	14th Feb. 1865	Herbert John Walduck. Edward Barton.
An improved blowing apparatus - - -	427	15th Feb. 1865	Samuel Richards Freeman. Abraham Grundy.
An improvement in the utilization of the waste gases of blast furnaces.	478	20th Feb. 1865	Joseph Cliff.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
An improved atmospheric pressure lamp for the burning of benzole, paraffin, naphtha or other volatile oils, which lamp may be used for all the purposes for which lamps are usually required, either for lighting, cooking, heating or other purposes. (*Partly communicated by John Joseph Riddle.*)	562	28th Feb. 1865	William Bell Dalston.
Smoke consuming apparatus - - -	584	2nd March 1865	Samuel Hopkinson. Edwin Hopkinson.
Water twyers for blast furnaces - - - (*Partly communicated by Mr. Norris Best.*)	722	15th March 1865	Nathaniel Neal Solly.
Apparatus for smoke vents or chimneys - -	724	15th March 1865	Thomas Kennedy.
Apparatus for blowing smiths' and other fires -	755	18th March 1865	James Cookson. Philip Billington.
Argand gas-burners - - - -	809	22nd March 1865	William Morrant Baker.
Stoves or fire-places, ash-pans, and fenders -	826	23rd March 1865	James Clifford Morgan.
Apparatus for obtaining light - - -	841	24th March 1865	Giacomo Felice Marchisio.
Improvements in the manufacture or preparation of materials for and in their application to lighting and heating purposes, also in apparatus used for the same. (*Communicated by Auguste de Peyronny.*)	855	25th March 1865	William Clark.
Certain improvements in gas-burners - -	876	28th March 1865	François Adolphe Mocquard.
Furnaces or apparatus for heating the blast for furnaces used in smelting iron, and for other furnaces.	891	29th March 1865	John Player.
Means or method of curing or preventing smoky chimnies.	911	31st March 1865	Benjamin Greenwood.
Apparatus applicable to furnaces for smelting ores and melting metals - - - - -	942	3rd April 1865	Henry Brook. John Eastwood. George Brook, junr.
An improved rabble or bar used in puddling iron -	968	5th April 1865	George Walter Dyson.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
A new method of applying suction and blast, and the apparatus employed therein. (*Communicated by Felix Alexandre Testud de Beauregard.*)	1028	11th April 1865	Richard Archibald Brooman.
Smoke consuming furnaces - - - (*Communicated by Etienne Sauret and Eugene de Fleury.*)	1152	25th April 1865	Richard Archibald Brooman.
Improvements in drying malt and grain, and in the machinery or apparatus connected therewith.	1297	10th May 1865	John Forbes.
Gas-burners and chimneys - - - - (*Communicated by William Resor.*)	1334	13th May 1865	William Clark.
Ovens or kilns for the manufacture of coke -	1435	25th May 1865	John Gjers.
Cupola and other blast furnaces - - -	1448	26th May 1865	Richard Canham.
Means and apparatus employed for preventing downward draft in chimnies, facilitating the escape of smoke therefrom, and for ventilating apartments or buildings - - -	1471	29th May 1865	Edward Myers. James Stodart.
An improved burner for gas and other lighting apparatus.	1494	31st May 1865	Hypolite Monier.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Foundry cupolas	1498	31st May 1865	Thomas Summerson.
Caloric or heated air engines *(Communicated by Cyrus W. Baldwin and Walter Davis Richards.)*	1563	8th June 1865	Samuel Blatchford Tucker.
Lamp burners and parts connected therewith *(Communicated by Rufus Spaulding Merrill and William Lincoln.)*	1631	16th June 1865	John Henry Johnson.
An improved method of and apparatus for burning liquid hydrocarbons, and the employment thereof for heating purposes. *(Communicated by Alexandre Schpakofsky and Nicolas Stange.)*	1711	27th June 1865	Richard Archibald Brooman.
Means and apparatus for increasing the mechanical power of steam.	1820	11th July 1865	William Alexander Lyttle.
Lamps	1862	15th July 1865	Anson Henry Platt.
Construction and working of furnaces for puddling, balling, heating and melting metals.	1882	19th July 1865	David Caddick.
Fire-engines and hydraulic machines *(blow pipes of forges.)*	1953	28th July 1865	Leon Paul Laroche.
Locomotive and other tubular boilers	1990	1st Aug. 1865	Louis Emile Constant Martin.
Wick holders or burners for lamps	2024	4th Aug. 1865	Emil Wild. Wilhelm Wessel.
Lamps for burning paraffin oil and other volatile oils.	2042	7th Aug. 1865	Abraham Follet Osler.
Manufacture of candles *(Communicated by Charles Goublier.)*	2065	11th Aug. 1865	John Henry Johnson.
Improvements in carburetting coal gas and manufacturing artificial gas, and in the machinery or apparatus employed therein.	2095	12th Aug. 1865	Henry Woodward.
Improvements in and connected with the manufacture of copper.	2100	14th Aug. 1865	James Thomas Lockey.
Furnaces to be used in the manufacture of glass and iron and steel, and for other like purposes. *(Communicated by Henning Boetius.)*	2105	15th Aug. 1865	John Frederick Boetius.
Blacksmiths' bellows, more especially those used in portable forges.	2152	21st Aug. 1865	John Bowden.
Steam-boiler and other furnaces	2158	22nd Aug. 1865	John Lockwood.
A new and useful steam blower or blast apparatus for furnaces. *(Communicated by John Allen Bassett.)*	2245	31st Aug. 1865	Oliver Bennett.
Means of and apparatus for consuming smoke in furnaces.	2382	19th Sept. 1865	Charles Worssam.
Improvements in and applicable to furnaces for the consumption of smoke.	2405	21st Sept. 1865	William Watkin.
Apparatus for ventilating and for preventing down draught in flues.	2467	26th Sept. 1865	John Hilliar.
Apparatus for lighting and heating suitable for sick rooms and nurseries, and applicable also as holders for matches, watches and other necessary articles. *(Communicated by François René Menand and Charles Louis Marie Menand.)*	2515	30th Sept. 1865	John Henry Johnson.
Blast furnaces	2528	2nd Oct. 1865	Silas Covell Salisbury.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Improvements in apparatus for the regulation of the up and down currents of air, and for the prevention and cure of smoky chimneys.	2602	10th Oct. 1865	William Cooke.
Paraffine lamps - - - - - -	2616	10th Oct. 1865	Daniel Gallafent.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
Treatment of copper ores in the manufacture of copper. (*Communicated by Frédéric le Clerc.*)	2662	16th Oct. 1865	William Clark.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François George Sicardo.
Furnaces - - - - - - -	2682	17th Oct. 1865	William Beardmore.
Hydrocarbon lamps - - - - - -	2742	24th Oct. 1865	William Snell.
(*Communicated by Dr. Moritz Herzog and David Leopold Cohn.*)			
Lanterns for burning coal oil, petroleum and other hydrocarbon fluids. (*equalizing admission of air.*) (*Communicated by William Westlake.*)	2809	1st Nov. 1865	Edwin Addison Phillips.
An improved apparatus for increasing draught in and preventing or curing smoky chimneys, and economising heat. (*Communicated by François Perrachon.*)	2822	2nd Nov. 1865	William Edward Gedge.
Improvements in the manufacture of iron and steel, and in apparatus employed in such manufactures.	2835	3rd Nov. 1865	Henry Bessemer.
Improvements in forges and in apparatus for lubricating parts thereof, which apparatus is also applicable for lubricating other moving parts of machinery. (*Communicated by Claude Henri Turge, sen^{r}.*)	2878	8th Nov. 1865	William Edward Gedge.
Furnaces for heating the blast for blast furnaces -	2897	10th Nov. 1865	Thomas Whitwell.
Gas stoves - - - - - - -	2935	14th Nov. 1865	Samuel Lawrence Gill.
Cooking apparatus - - - - -	2971	18th Nov. 1865	Samuel Hazard Huntly.
(*arranging dampers.*)			
Apparatus for condensing exhaust steam, and heating air by the heat abstracted in effecting the condensation of such steam. (*for supplying oxygen to boiler furnaces.*) (*Communicated by Addison Calvin Fletcher.*)	2996	21st Nov. 1865	Alfred Vincent Newton.
Apparatus for obtaining artificial light from volatile liquids or fluids - - -	2998	22nd Nov. 1865	William Wells. Samuel Marland.
Furnaces - - - - - - -	3025	25th Nov. 1865	William Alexander Lyttle.
Means or apparatus for economizing and inducing more perfect combustion of fuel in furnaces.	3062	29th Nov. 1865	Thomas Lancaster.
Furnaces - - - - - -	3095	2nd Dec. 1865	Edward Brown Wilson.
(*supplying with a current of hot air.*)			
Improvements in puddling, heating, and other reverberatory furnaces used in the manufacture of iron and steel, and for other purposes.	3136	6th Dec. 1865	Thomas Lewis Nicklin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - - (*increasing draft of fire-places.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
Improvements in locomotive engines and in the means employed for generating steam therein.	3185	9th Dec. 1865	Robert Francis Fairlie.
Construction of fire-places and furnaces - -	3247	15th Dec. 1865	George Warriner.
Improvements applicable to steam-boilers, iron, steel, retort and other furnaces.	3338	26th Dec. 1865	Joshua Fisher.
II.—Supplying Air in Cleansing, Thrashing and Dressing Grain and Seeds.			
Machinery or apparatus for cleaning and decorticating grain.	115	13th Jan. 1865	Wilson Ager.
An improvement in the construction of mills for grinding and pulverizing grain and other substances.	211	25th Jan. 1865	Anthony Stevenson.
Improvements in the means of decorticating grain and other seeds, and in apparatus for the same. (*Communicated by Gustave Lataste, Christophe Ours Bullot and Clément Montoille.*)	561	28th Feb. 1865	William Clark.
An improved fan or exhaust for thrashing machines (*Communicated by Hyppolyte Hatté and Auguste Hatté.*)	1241	3rd May 1865	William Edward Gedge.
Flour mills - - - - - - (*Communicated by Charles Simon Olivier Martineau, Narcisse Justine and Nicolas François Dumet-Prévost.*)	1348	15th May 1865	Henri Adrien Bonneville.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - (*forcing heated air through.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Machinery or apparatus for hulling and winnowing grain. (*Communicated by Friedrich Henckel and Wilhelm Seck.*)	2300	7th Sept. 1865	William Lloyd Wise.
Improvements in grinding wheat and other grain, and in apparatus for drying and improving the condition of damp wheat or other grain.	2485	28th Sept. 1865	Benjamin Wren.
An improved mode of ventilating millstones - (*Communicated by Alexandre Désiré Lagoguey.*)	2924	13th Nov. 1865	Henry Edward Newton.
Apparatus employed in grinding corn and other substances capable of being ground by millstones.	3126	5th Dec. 1865	Edward Alfred Cowper.
Machinery for drying and bleaching grain and other materials.	3276	19th Dec. 1865	William Creasy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
III.—Admitting, Forcing, and Exhausting Air for Manufacturing and other Purposes; Air Pumps, Bellows, Fans and other Blowers; Forcing Gas through melted Metal, &c.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - - (*air or gas jackets.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Fan blowers - - - - - -	23	4th Jan. 1865	Wilson Ager.
A new system of boiling grain sugar in vacuo -	42	6th Jan. 1865	Jules Lebaudy.
Locomotive engines - - - - (*Communicated by Auguste De Bergue.*)	48	6th Jan. 1865	Charles De Bergue.
Construction of vacuum pans - - -	57	7th Jan. 1865	Edward Beanes. Conrad William Finzel.
Improvements in machinery used for condensing atmospheric air, and in machinery worked by compressed air, employed in getting coal, stone and minerals.	96	11th Jan. 1865	James Grafton Jones.
Furnaces - - - - - - (*Communicated by Dominique Chiado.*)	103	12th Jan. 1865	Michael Henry.
Applying power to the working of ships' windlasses, winches, capstans, pumps and other ships' gear.	242	27th Jan. 1865	Handel Moore.
An improved system of drying wool, cotton and other fibrous materials, and in the machinery or apparatus connected therewith. (*Communicated by Carl Beu and Louis Boettcher.*)	255	28th Jan. 1865	Edward Thomas Hughes.
A new or improved method or process and apparatus for obtaining the concentrated extract of hops, and for preserving the same from deterioration. (*Communicated by George Percy, Walter Wells, Charles Brown, John Mulford, and John Maximilian Webb.*)	306	4th Feb. 1865	Joseph Rideal Webb.
An improved combustion pump - - - (*Communicated by Thomas John Linton.*)	314	4th Feb. 1865	William Clark.
Improvements applicable to air cushions, mattresses, portable baths and other like air inflated articles.	317	4th Feb. 1865	Arthur Henry Robinson.
Improvements in the ventilation of pressing irons heated by gas, and for preventing the condensation of the vapour in the tubes or flues leading therefrom.	350	7th Feb. 1865	Samuel Egan Rosser.
Looms for weaving - - -	377	10th Feb. 1865	Rowland Gibson Hazard.
Apparatus for communicating between the passengers, guard and engine driver of a railway train.	378	10th Feb. 1865	Arthur Cordy Edwards.
Case hardening or converting partially into steel articles of wrought or malleable iron. (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks - -	399	13th Feb. 1865	David Barr. William Henry Page. James Clements Newey.
Waterproofing skins, hides and leather - -	413	14th Feb. 1865	George Harton.
Apparatus for extracting liquid from solid substances (*Communicated by Lyman Smith.*)	486	21st Feb. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Gas-burners (*for blow-pipes.*)	568	24th Feb. 1865	Thomas Slocombe Hall.
Condensation and refrigeration of vapours and fluids.	572	1st March 1865	George Harman Barth.
Apparatus for propulsion by atmospheric pressure	596	3rd March 1865	Sir John Scott Lillie, Knight.
An improved means of securing and protecting the india-rubber rings of buffer springs of railway carriages, which invention is also applicable to air-pump and valve seatings, and lids faced with india-rubber.	626	6th March 1865	William John Oliver.
Apparatus for enabling the passengers in a railway train to communicate with the guard.	679	10th March 1865	Albert Westhead.
Process and apparatus for refrigerating or freezing liquids.	691	11th March 1865	James Henderson.
Apparatus for vaporizing hydrocarbon liquids for illuminating and heating. (*Communicated by Jonathan Griffen.*)	717	14th March 1865	George Tomlinson Bousfield.
Machinery and apparatus for mining or working coal and other minerals.	737	16th March 1865	James Farrar. Edwin Booth.
Railway breaks (*Communicated by Charles Louis Joseph Felix Jacquot.*)	745	17th March 1865	Henri Adrien Bonneville.
Looms for weaving	750	17th March 1865	James Bullough.
Improved arrangements and apparatus for drawing off liquors or liquids from casks and other vessels, without the aid of pumps.	761	18th March 1865	Joseph Walls.
Manufacture and refining of iron and steel	808	22nd March 1865	Morgan Morgans.
Machinery or apparatus for feeding paper to printing machines, and for taking off or removing and piling the same after printing	812	23rd March 1865	Edward Field. Francis Wise.
Improvements in obtaining motive-power, parts of which improvements are applicable to the compressing of air and gases.	840	24th March 1865	Valentine Baker.
Certain improvements in machinery or apparatus for drying "warps" of cotton and other fibrous substances	889	29th March 1865	Richard Holroyd. Joseph Holroyd Bolton.
Manufacture of iron and steel	1023	11th April 1865	Charles Vaughan.
Treating wool in order to cleanse it from burrs, seeds, and other foreign matters	1042	12th April 1865	Henry Sikes. George Jarmain.
Machinery for carding cotton and other fibrous substances, and for doubling yarns	1094	20th April 1865	James Hall. William Dunkerley. Samuel Schofield.
Apparatus for communicating and signalling between passengers, guards and drivers of railway trains, by day or by night	1097	20th April 1865	David Hancock. Thomas Evans.
Invalid carriages (*Communicated by Auguste Quitzow.*)	1120	21st April 1865	Henry Edward Newton.
Improved apparatus for pouring and decanting liquids.	1149	25th April 1865	Nicholas Sibly.
Improved means or apparatus for gaining or acquiring motive-power.	1156	25th April 1865	Claude Jacquelin, jun^{r}.
An improved apparatus for condensing steam and feeding boilers with the product therefrom.	1180	27th April 1865	Anthony Francis.

Subject-matter of Patent.	Number of Patent.	Date	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein, or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Leatham.
Improving and strengthening shields of steel, iron or other material for ships, fortifications and other constructions.	1225	2nd May 1865	Thomas Hay Campbell.
A mode of obtaining decoctions and apparatus for carrying the same into effect. (*Communicated by Benjamin Green Martin.*)	1227	2nd May 1865	Francis Wise.
Machines for drying and stretching woollen and other textile fabrics. (*Communicated by Joseph Sprague Winsor.*)	1233	3rd May 1865	George Tomlinson Bousfield.
Manufacture of iron and steel - - - (*forcing air through.*)	1310	11th May 1865	Joseph Bennett.
An improvement in stoppers and flasks, bottles and other similar vessels.	1320	12th May 1865	Spencer Thomas Garrett.
An improved method of testing railway and other springs - - - - - -	1374	18th May 1865	Joseph Mitchell. George Tilfourd.
An improvement in atmospheric forging hammers -	1380	19th May 1865	Edward Augustus Raymond.
Apparatus for raising oil and other liquids from deep wells. (*Communicated by Francis Stebbins Pease.*)	1392	20th May 1865	William Edward Newton.
A new and improved mode of making and venting cores and parts of moulds, to be used in the casting of iron or other metal. (*Communicated by Joseph Harrison, junior.*)	1434	25th May 1865	John Henry Johnson.
A new or improved machine for obtaining motive-power and other useful purposes. (*for exhausting or condensing air.*)	1468	29th May 1865	Henry Moseley.
A new or improved method of obtaining motive-power, together with certain machinery or apparatus for applying the same - - - -	1504	1st June 1865	David Hancock. Frederick Barnes.
Furnaces used in the manufacture of welded iron tubes.	1517	2nd June 1865	Thomas Pritchard.
Turbines - - - - - - -	1534	5th June 1865	Thomas Gentle. Joseph Allmark.
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick Tolhausen.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
An improved force dispeller or spring buffing apparatus. (*containing air.*)	1599	13th June 1865	William Jeffrey Hopkins.
Sizing machines for sizing yarns, beams or warps to be woven - - - - - -	1729	29th June 1865	David Mercer. Thomas Mercer. Jonathan Mercer. Joseph Mercer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
An improved mode of pressing and moulding clay, sand or cement for making bricks, and for other purposes. (*Communicated by John Steele.*)	1748	1st July 1865	William Robert Lake.
Improvements in the conversion of wrought or malleable iron into steel, and in the means or apparatus employed therein - - - (*passing gas over red hot iron.*)	1776	5th July 1865	John Jobson. John Farmerley Dickson.
Improved machinery for boring rocks and hard substances.	1778	5th July 1865	George Low.
Improvements in harmoniums, organs or other musical instruments, a part of which invention is applicable to turning over the leaves of music.	1783	6th July 1865	James Henry Smith.
An improved manufacture of coffins and air-tight receptacles.	1804	7th July 1865	Joseph George.
Fountains - - - - - -	1823	10th July 1865	Frederick Taylor.
A new and improved mode of elevating ships or boats in the water, to enable them to pass over sand bars, shallows and the like, and for raising sunken vessels and docks.	1838	12th July 1865	Thomas Cato M'Keen.
Apparatus for the locomotion of trains on railways, by atmospheric pressure.	1852	14th July 1865	William Podmore Bayliss.
Looms for weaving - - - - - - (*worked by pneumatic power.*)	1876	19th July 1865	Mark Knowles.
An improved apparatus for producing sound for signals, calls and alarms, adapted to use on vessels, railway trains, buoys, reefs, lighthouses and in other places of danger. (*Communicated by The Incorporated Marine Signal Company.*)	1898	20th July 1865	John Harkness Wray.
Apparatus for burning combustible and volatile liquids for generating steam and similar purposes. (*Communicated by Patrick Hayes.*)	1938	26th July 1865	George Tomlinson Bousfield.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - - - (*travelling fan for forcing currents of air.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Applying and utilising water power - - (*for compressing air.*)	1967	29th July 1865	Valentine Baker.
Means or apparatus for stopping or retarding railway carriages - - - - - -	1969	29th July 1865	John Swinburne. James Laming.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein. (*applying heated air to hoops.*)	1975	31st July 1865	John Ramsbottom.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
Improvements in brewing and distilling, also in drying yeast, and in the apparatus employed.	2019	4th Aug. 1865	Patrick Robertson.
Means of and mechanism for obtaining motive-power.	2020	4th Aug. 1865	Adderley Sleigh.
Apparatus applicable as a motive-power engine, a [illegible] or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Machinery for moulding hollow articles in earth, clay and other like materials.	2084	11th Aug. 1865	Robert Williams Armstrong.
Improvements in carburetting coal gas and manufacturing artificial gas, and in the machinery or apparatus employed therein.	2095	12th Aug. 1865	Henry Woodward.
Blacksmiths' bellows, more especially those used in portable forges.	2152	21st Aug. 1865	John Bowden.
Improvements in the manufacture of steel, iron and metal suitable for bearings, and in apparatus for the same.	2175	24th Aug. 1865	William Colborne Cambridge.
Improvements in apparatus by means of which certain liquids, common air and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*supplying air for organs.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
Dyeing and printing woollen or silk fabrics and yarns	2201	28th Aug. 1865	Alfred Paraf.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products from wood. (*using partial vacuum.*) (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
Meters or apparatus for measuring water or other fluids, partly applicable for exhausting air or other gases.	2259	1st Sept. 1865	Charles Horsley.
Vent pegs for casks or vessels from which beer or other liquid is drawn off from time to time.	2365	15th Sept. 1865	Robert Mann Lowne.
Construction of gas meters - - - -	2372	16th Sept. 1865	William Esson.
Improvements in the machinery or apparatus, and in the processes for the treatment and manufacture of sugar. (*vacuum pans.*)	2385	19th Sept. 1865	John Fletcher.
Improvements in the manufacture of bricks, blocks, flue covers and tiles, and in the machinery and apparatus employed therefor.	2392	19th Sept. 1865	James Gillespie.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement.	2423	22nd Sept. 1865	Matthew Cartwright.
Improvements in generating illuminating gas, and in the machinery or apparatus employed therein. (*Communicated by Erasmus Allington Pond, Mark Staples Richardson, and Edmund Alonzo Morse.*)	2435	23rd Sept. 1865	John Henry Johnson.
Improved apparatus for generating illuminating gas (*Communicated by John Irwin.*)	2439	23rd Sept. 1865	Alfred Vincent Newton.
Manufacture of cast iron, malleable iron, and steel -	2456	26th Sept. 1865	Nicholas Korshunoff.
An improved mode of decarbonising retorts - (*Communicated by George Washington Edge.*)	2465	26th Sept. 1865	Alfred Vincent Newton.
Centrifugal pumps and fans - - -	2489	28th Sept. 1865	Arthur Rigg, jun^{r}.
Atmospheric buffing apparatus - - -	2520	2nd Oct. 1865	Thomas Williams.
Pneumatic ways for the transmission of letters, merchandize and passengers. (*Communicated by Elias Parkman Needham.*)	2537	3rd Oct. 1865	William Edward Newton.
Improvements in apparatus and means for extinguishing fires, part of such improvements being applicable for other purposes.	2559	5th Oct. 1865	William Henry Phillips.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Improvements in evaporating and distilling liquids, and in the apparatus employed therein.	2590	7th Oct. 1865	Tomlin Campbell.
Improvements in apparatus for the regulation of the up and down currents of air, and for the prevention and cure of smoky chimneys.	2602	10th Oct. 1865	William Cooke.
Improvements in submarine electric telegraph cables, and in apparatuses connected therewith. (*admitting air to maintain a part of cable.*)	2605	10th Oct. 1865	François Thierry Hubert.
Heating calender bowls and other cylinders or rollers (*supplying air to bowls, &c.*)	2636	12th Oct. 1865	William Mather.
An improved mode of treating or preparing casks and other vessels, to make them tight and suitable for containing hydrocarbon and other fluids.	2644	13th Oct. 1865	George Marshall.
Apparatus for applying carbonic and other gases to iron and other metals in a molten state.	2657	14th Oct. 1865	James Cartmell Ridley.
The improvement of the means of and apparatus for laying submarine electrical telegraphic wires, lines, cables or other contrivances of a like sort.	2670	16th Oct. 1865	Reinhold Edward Kaulbach.
Improvements in desiccating the leaves and flowers of plants and other vegetable substances, and in the apparatus to be employed therein. (*Communicated by Benjamin Dickinson.*)	2703	20th Oct. 1865	Allan Lawrie McGavin.
Construction of pumps for raising or forcing water or other liquids or fluids - - - -	2745	24th Oct. 1865	Hyde Bateman. Edward Gooch Garrard.
Arrangements or apparatus for drying peat -	2824	2nd Nov. 1865	Murdoch Campbell. Algernon Charles Plumptre Coote. John Charles Augustus Henry Wolffram.
Improvements in generating and applying certain gases, and in apparatus to be employed therein. (*blow pipes.*)	2833	2nd Nov. 1865	James Webster.
Machinery for transmitting and receiving signals - (*Communicated by Count Ambjorn Pietro Sparre.*)	2841	3rd Nov. 1865	Alexander Horace Brandon.
Looms for weaving - - - - - (*pneumatic looms.*)	2843	3rd Nov. 1865	Arthur Heald.
Means of preventing vessels from sinking, which means are also applicable for raising sunken vessels.	2851	4th Nov. 1865	Thomas Page.
An improved truck or barrow for wheeling and tipping coke, coal or other substances. (*admitting air for cooling.*)	2848	4th Nov. 1865	William Brett.
Preserving meat and other articles for food - -	2919	13th Nov. 1865	Wilson Fox.
Purifying or refining iron - - - - -	2929	14th Nov. 1865	John Dixon.
An improvement in the process for making butter -	2936	15th Nov. 1865	Henry Clifton.
Improvements in preserving animal and vegetable substances, and in means or apparatus employed therein. (*producing a vacuum.*)	2952	16th Nov. 1865	Richard Jones.
Apparatus for condensing exhaust steam, and heating air by the heat abstracted in effecting the condensation of such steam. (*Communicated by Addison Calvin Fletcher.*)	2996	21st Nov. 1865	Alfred Vincent Newton.
Apparatus for signalling on railways - - (*operating by compressed air.*)	3032	25th Nov. 1865	Charles Frederick Whitworth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Air Supplying, &c.—*continued.*			
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - - -	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
An improved mode of preserving animal and vegetable substances. (*Communicated by Francis Stabler.*)	3172	9th Dec. 1865	Alfred Vincent Newton.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.
Machinery for opening and cleaning cotton and other fibrous substances - - -	3233	14th Dec. 1865	Thomas Ridley Hetherington. Samuel Thornton.
Improvements in propellers for ships and vessels, parts of which are applicable to windmill sails and fan blowers - - - - -	3295	20th Dec. 1865	Frederick Lamb Hancock. Charles Lamb Hancock.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters - - -	3344	27th Dec. 1865	Gaston Charles Ange. Marquis D'Auxy.
Improvements in distilling and in relieving distilled and other liquids from gases mechanically mixed therewith. (*air discharging apparatus.*)	3351	27th Dec. 1865	Norman Willis Wheeler.
Means of feeding meal to the bolting reel in flouring mills.	3385	30th Dec. 1865	William Fraser Cochrane.
IV.—Ventilation Supplying and Purifying Air for Buildings, Mines, Ships, Carriages, &c.			
Construction of railway carriages - - - (*and ventilating.*)	95	11th Jan. 1865	Rock Chidley.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating or winnowing grain, or other analogous purposes.	174	20th Jan. 1865	Louis Balma.
Boots and shoes - - - - - -	190	23rd Jan. 1865	John Eadie.
Improvements in armour-plated and other ships or vessels, also applicable to fortifications generally. (*tubes for ventilation.*)	296	2nd Feb. 1865	Julius Saunders Jeffreys.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads and floating piers, gangways, breakwaters and other similar structures, also as a motive power. (*moving punkahs.*) (*Communicated by William Graham McIvor.*)	321	6th Feb. 1865	Clements Roberts Markham.
Apparatus for ventilating horticultural and other buildings.	332	6th Feb. 1865	Charles Beard.
Improvements in ventilating blinds or screens, and in means of ventilating ships and vessels.	433	15th Feb. 1865	Charles Lungley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Improvements in treating sewage and in arranging apparatus in sewers and culverts to facilitate the ventilation of such structures.	451	16th Feb. 1865	Richard Smith.
Apparatus for ventilating hats - - -	498	22nd Feb. 1865	John Carter.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Apparatus for heating and cooling atmospheric air and other aëriform bodies, and for heating ovens, and for heating and ventilating buildings.	636	7th March 1865	Loftus Perkins.
Furnaces and fire-places - - - - -	692	11th March 1865	Edward Brown Wilson.
Improvements in securing low and uniform temperatures, applicable to public and private buildings, also to refrigerators, coolers and condensers, and to ships and other vessels, and in the apparatus employed therein. (*Communicated by Daniel Somes.*)	719	14th March 1865	Alfred Vincent Newton.
Improved means of ventilation by the use of perforated tubular cornices and centre-pieces.	813	23rd March 1865	Thomas Harvey Saunders.
Ventilating blinds - - - - -	879	28th March 1865	Henry Welchman King.
Improved apparatus for collecting or receiving pulverized flint or dust.	909	31st March 1865	Elias Leak.
An improved hat ventilator - - - - -	961	5th April 1865	Robert Stanley.
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
Improvements in apparatus for lighting and ventilating ships, part of which is also applicable for producing fresh water at sea.	995	7th April 1865	Henry Edmonds.
Means and apparatus employed for preventing downward draft in chimnies, facilitating the escape of smoke therefrom, and for ventilating apartments or buildings - - - - -	1471	29th May 1865	Edward Myers. James Stodart.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Method of constructing partitions, walls, floors and roofs of buildings.	1598	13th June 1865	John James Bodmer.
Improvements in ventilating railway carriages and in the apparatus to be employed therefor.	1648	19th June 1865	William Clay.
Improved sanitary apparatus or arrangements for preventing noxious exhalations such as arise when coating or treating iron or other articles -	1690	24th June 1865	Matthew Andrew Muir. James M'Ilwham.
Improvements in tubular structures, rendering them specially applicable for ships' masts and building purposes. (*shafts for ventilation.*)	1755	3rd July 1865	Edward Deane.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Means of obtaining or producing oxygen applicable to various useful purposes. (*for purifying air in ships, mines, &c.*)	1780	6th July 1865	Hermann Beigel.
A diving apparatus for submarine purposes -	1837	12th July 1865	Thomas Cato M'Keen.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Ventilators - - - - -	1866	18th July 1865	John Paul Baugh Le Patourel.
Fire-engines and hydraulic machines - - (*or concentrated ventilators.*)	1953	28th July 1865	Leon Paul Laroche.
Roofing-tiles and slabs - - - - (*ensuring ventilation.*)	1991	1st Aug. 1865	Frederick Ransome.
Ventilators - - - - - -	2111	16th Aug. 1865	James Billings.
Punkahs - - - - -	2148	19th Aug. 1865	John Edwin Marsh.
An improved arrangement of apparatus and materials to be employed for effecting the deodorizing of the noxious gases arising from sewers and drains, and for the more effectual ventilation and inspection of such sewers and drains.	2451	25th Sept. 1865	Edward Brooke the younger.
Apparatus for ventilating and for preventing down draught in flues.	2467	26th Sept. 1865	John Hilliar.
A new or improved ventilating spring mattress -	2511	30th Sept. 1865	Joseph Edwin Townshend.
Certain improvements in window fittings - -	2603	10th Oct. 1865	William Cooke.
An improved ventilating apparatus for use in steam-boats, vessels and other places requiring to be ventilated.	2609	10th Oct. 1865	John Garrison Woodward.
Trapping and ventilating sewers - - -	2614	10th Oct. 1865	Richard Abell.
Greenhouses - - - - - -	2684	18th Oct. 1865	Thomas Hungate Preston Dennis.
Ventilators for windows and other like openings -	2799	31st Oct. 1865	David Blair White.
Improvements in apparatus for obtaining fresh water from salt and impure water, also applicable for ventilating purposes.	2953	17th Nov. 1865	Samuel Hazard Huntly.
Apparatus for preventing draughts of air between the floor and the lower part of doors.	3050	28th Nov. 1865	Louis Desiré Carbonnier.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - -	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes. (*for ventilation.*)	3173	9th Dec. 1865	Alexander Doull.
An improved mode of and apparatus for purifying and deodorising impure air, whether in buildings, ships, mines or sewers, which improvement is also applicable for ventilating purposes - -	3287	20th Dec. 1865	Joseph John Harrison. Edward Harrison.
A new and improved apparatus for cooling and purifying air in rooms or compartments, and ventilating the same. (*Communicated by Azel Storrs Lyman.*)	3292	20th Dec. 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AIR SUPPLYING, &c.—*continued.*			
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required. (*shafts for ventilation.*)	3314	22nd Dec. 1865	Edward Deane.
ALKALIES; ALKALINE AND EARTHY SALTS; SALTS OF ALUMINA; BARYTA, IODINE AND COMPOUNDS.			
An improved method of treating apatite and other mineral phosphates. (*obtaining sulphate and biphosphate of lime.*) (*Communicated by Mr. John Oliver.*)	3	2nd Jan. 1865	Montague Richard Leverson.
Improvements in the manufacture of oxygen gas and in treating and economizing the residual products of the said manufacture - - - (*obtaining caustic soda.*)	5	2nd Jan. 1865	John Frederick Parker. Joseph Tanner.
Treating phosphates of lime and salts of potass and soda in order to fit them for agricultural uses. (*Communicated by Georges Ville.*)	140	17th Jan. 1865	Richard Archibald Brooman.
Treating spent or used leys resulting from the preparation of fibrous substances used in the manufacture of paper stock. (*recovering alkali.*)	297	2nd Feb. 1865	Thomas Routledge.
Preparation of superphosphate of lime - - (*Communicated by Robert Barnhill Potts.*)	320	4th Feb. 1865	William Edward Newton.
A new or improved insulating material for telegraphic and other purposes, together with an improvement in protecting telegraph wires, especially applicable to submarine and subterranean telegraphs. (*asbestos.*) (*Communicated by Jules Erckmann.*)	362	9th Feb. 1865	William Alfred Marshall.
Certain improvements in the manufacture of magnesium and its compounds - - -	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.
Obtaining sulphates and carbonates of potash and soda.	460	17th Feb. 1865	Charles Frederick Claus.
Treatment and utilization of certain products obtained in the manufacture of paper or of paper stock - - - - - - -	532	25th Feb. 1865	Thomas Routledge. Thomas Richardson.
Treatment of certain products obtained in the smelting of iron - - - - - (*collecting ammoniacal products.*)	580	2nd March 1865	Thomas Horton. David Simpson Price.
An improvement in carburetting gas, also in the preparation of hydrocarbons for carburetting gas, and improved methods of treating alkali which has been used to purify coal oils, shale oils, petroleum and other mineral oils.	596	3rd March 1865	William Renwick Bowditch.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ALKALIES, &c.—*continued.*			
An improved process of and apparatus for making caustic liquor or caustic lees.	629	6th March 1865	Thomas Nicholson.
Preparation of hyposulphite of lime - -	765	18th March 1865	James Cochran Stevenson.
Treating the waste liquors obtained in bleaching certain vegetable substances.	797	22nd March 1865	Harold Potter.
Apparatus employed in the concentration of all solutions where quick or speedy concentration or evaporation is required. (*manufacture of soda, &c.*)	872	28th March 1865	William Walsh.
Improvements in the preparation or treatment of sea weed and in obtaining products therefrom -	877	28th March 1865	Richard Young. Charles Finlay Oliphant Glassford, F.C.S.
Manufacture of sulphate of alumina - -	900	30th March 1865	Alexander Angus Croll.
Manufacture of soda and potash - - -	1011	8th April 1865	Andrew George Hunter.
Manufacture of soluble and assimilable superphosphates of lime, by the application of phosphoric acid and acid phosphates. (*Communicated by Lucien Henri Blanchard and Théodore Chateau.*)	1161	25th April 1865	William Clark.
Obtaining certain compounds of nitrogen and of sulphur - - - - - (*ammonia and compounds.*)	1385	19th May 1865	Thomas Richardson. Martin Diederich Rücker.
Apparatus for washing or purifying coal gas, and for producing ammoniacal water therefrom.	1386	19th May 1865	William Davey.
Certain improvements in the manufacture and production of cromate and bicromate of potash employed in dyeing and printing woven fabrics.	1579	10th June 1865	Joseph Mayer Dentith.
Obtaining sulphates and carbonates of potash and soda.	1785	6th July 1865	Charles Frederick Claus.
An improved process of preparing sea weeds and other vegetable substances for the production of artificial guano, felt, alkaline salts and iodine.	1877	19th July 1865	Donald M'Crummen.
Certain improvements in the manufacture of superphosphate of lime from guano. (*Communicated by Gustave Adolph Liebig.*)	1790	6th July 1865	Alfred Vincent Newton.
Treating ammoniacal liquors for purifying gas and other purposes.	1818	10th July 1865	George Thomas Livesey.
Manufacture of soda and carbonate of soda - -	1914	22nd July 1865	Joseph Pierre Gillard.
Improvements in the manufacture of carbonate of ammonia, and in the utilization of the product obtained in such manufacture. (*Communicated by Dr. Hugo Kunheim.*)	1933	25th July 1865	Astley Paston Price.
Certain improvements in the manufacture of sal-ammoniac - - - - - -	1936	26th July 1865	William Richards. Joseph Richards.
Improvements in the manufacture of compounds of silica and in the production of silicated alkaline inks, colours and dyes.	2267	2nd Sept. 1865	Henry Ellis.
An improved process of and apparatus for making caustic liquor or caustic lees.	2289	6th Sept. 1865	Thomas Nicholson.
Treating soda waste to obtain sulphur therefrom -	2443	23rd Sept. 1865	Max Schaffner.
An improved preparation or composition for coating, covering or coloring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses. (*preparing carbonate of lime.*)	2638	12th Oct. 1865	William Barwick.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ALKALIES, &c.—*continued.*			
Improvements in the manufacture of chromates of ammonia and chromic acid, and in the preparation of nitrates of lime and baryta. (*Communicated by Félix Dehaut.*)	2702	19th Oct. 1865	William Clark.
Improvements in the method of and apparatus for utilizing the liquors used in the treatment of straw or other fibrous materials for the manufacture of paper, which improvements are also applicable to the evaporation of liquids generally. (*recovering the alkalies.*) (*Communicated by Eugene Porion.*)	2726	21st Oct. 1865	James Wright.
Manufacture of caustic soda - - -	2801	31st Oct. 1865	George Robinson.
Treatment and deodorization of sewage water - (*preparing lime compounds.*)	2808	31st Oct. 1865	Henry Young Darracott Scott.
Improvements in the process of treating materials for the manufacture of paper and other similar textile fabrics, and in apparatus for the same. (*and recovering alkali.*) (*Communicated by Robert Hanham Collyer.*)	3067	29th Nov. 1865	Charles Stuart Baker.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap.	3107	4th Dec. 1865	Leopold Joseph Bouchart.
Improvements in the manufacture of soda and in the apparatus employed in the said manufacture. (*Communicated by Alphonse Laurent.*)	3340	26th Dec. 1865	Michael Henry.
ANCHORS; MOORING ANCHORS.			
Mooring anchors - - - - -	420	14th Feb. 1865	John Trotman.
Anchors - - - - -	3004	22nd Nov. 1865	Samuel Hunter.
AXLES, SHAFTS, BEARINGS, JOURNALS, AXLE-BOXES, PACKINGS FOR AXLES; LUBRICATING AXLES, &c.			
An improved method of and apparatus for lubricating the axles or journals of coal or ironstone waggons or tubs, or of other carriages or rolleys used upon tramways or railways, for carrying mineral or other material - - -	6	2nd Jan. 1865	Joseph Smith, jun^{r}. John Williamson.
Bearings for general mechanical purposes, and the application of fluid metallic in lieu of oleaginous or other lubricants to prevent friction - -	109	13th Jan. 1865	Frederick George Mulholland. Thomas Dugard.
Packing for steam joints, stuffing boxes, pistons and the like.	217	26th Jan. 1865	William Paton.
Steam-engines - - - - -	338	7th Feb. 1865	Charles Lungley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Case hardening, or converting partially into steel, articles of wrought or malleable iron. (*surfaces of shafts and axles.*) (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
Bogie trucks used for supporting railway locomotive engines, carriages and waggons.	404	13th Feb. 1865	William Adams.
Apparatus for rinsing and drying by centrifugal force. (*Communicated by Félix Monmon and Auguste Racinet.*)	604	4th March 1865	Henri Adrien Bonneville.
An improved packing for piston and other rods - (*Communicated by William Bolivar Davis.*)	647	8th March 1865	Francis Wise.
An improved rotary spader or digging machine for tilling land. (*Communicated by Cicero Comstock.*)	671	10th March 1865	Edwin Addison Phillips.
An improved agricultural implement - -	675	10th March 1865	George Wright.
Preparing lubricating compounds - - (*for axles and bearings.*)	867	27th March 1865	William West.
File cutting machinery - - - - (*Communicated by Alfred Weed.*)	885	29th March 1865	William Brookes.
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	961	6th April 1865	John Henry Johnson.
Improvements in carriage and other wheels, and in connecting or fixing the said wheels to their axle boxes.	1024	11th April 1865	Stephen Wright.
Apparatus for lubricating spindles, shafts or other frictional surfaces. (*Communicated by William Francis Rippon.*)	1060	13th April 1865	James Rippon.
An improved packing for steam cylinders, stuffing boxes and closed vessels containing water, air or gases, and for other similar purposes. (*Communicated by Frederic Henry Brinkmann and Ernest Frederic Wackwitz the younger.*)	1112	21st April 1865	Edward Thomas Hughes.
Wheels and the manner of applying the same to railway carriages for passengers' and goods' traffic, as also the leading wheels for locomotives.	1114	21st April 1865	William Day.
Digging machinery - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
Machinery for preparing and spinning cotton and other fibrous substances.	1125	22nd April 1865	Edward Lord.
Improvements in motive-power machinery for cultivating land, part of which improvements is applicable to driving machinery generally -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Certain improvements in apparatus for lubricating frictional surfaces, and in the lubricant to be employed therewith.	1175	27th April 1865	Joseph Wilson Lowther.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metal. (*for machine framing.*)	1208	1st May 1865	Henry Bessemer.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Apparatus for receiving the thrust of screw propeller and other revolving shafts - - (*applicable for footstep bearings.*)	1234	3rd May 1865	Edward Thornton Read. John Brough Fyfe.
Improved apparatus for cutting, turning and smoothing metal pipes, and the surfaces of bolts, rods or spindles - - - - - (*shafts.*)	1311	11th May 1865	George Mountford. Edward Worroll.
A new or improved spring apparatus to be applied to the bearings of the axles of pulleys or drums used in collieries - - - - -	1343	15th May 1865	George Elliot. Samuel Bailey Coxon.
A new or improved method of obtaining motive-power, together with certain machinery or apparatus for applying the same - - -	1504	1st June 1865	David Hancock. Frederick Barnes.
An improved metallic stuffing box - - -	1555	7th June 1865	Victor Duterne.
Locomotive engines and railway carriages - - (*segmental bearings.*)	1646	19th June 1865	George Smith the younger.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*for lubricating bearings.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Axles for carriages - - - - - -	1762	4th July 1865	Stephen Wright.
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings. (*adapted to shafts.*)	1885	19th July 1865	George Nimmo.
Construction of valves for steam and other engines (*bearings or seats.*) (*Communicated by Thomas Shrimton Davis.*)	1913	22nd July 1865	William Edward Newton.
Conical plug steam valves - - - - - (*bearing surface.*) (*Communicated by John Wesley Carhart.*)	1956	28th July 1865	William Edward Newton.
Construction of axle-boxes and bearings - - (*Communicated by Edouard Chollet.*)	2028	4th Aug. 1865	Henri Adrien Bonneville.
Improvements in and applicable to railway carriages to enable passengers to pass from one compartment to another, and to give signals on trains in motion.	2086	11th Aug. 1865	Thomas English Stephens.
Machinery for lubricating the axles of colliery and other similar waggons or trucks.	2090	12th Aug. 1865	James Knowles.
Preparing lubricating compounds - - -	2118	16th Aug. 1865	William West.
Improvements in the manufacture of steel, iron and metal suitable for bearings, and in apparatus for the same.	2175	24th Aug. 1865	William Colborne Cambridge.
Treating, working or manipulating cast steel, for the manufacture of wheel tires, armour plates or other articles requiring great hardness and tensile strength. (*axles, shafts. &c.*)	2277	5th Sept. 1865	Julien Grand.
Apparatus for lubricating shafts and other running surfaces.	2288	6th Sept. 1865	William Mycock.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages. (*friction gearing.*)	2379	18th Sept. 1865	Russel Aitken.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for tightening bearing surfaces of shafts.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Machinery for shaping metal and other substances - (*railway axles.*)	2552	5th Oct. 1865	Hesketh Hughes.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Carriages propelled by manual power - -	2623	11th Oct. 1865	Thomas Du Boulay.
Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances. (*bearings for spindles.*)	2651	14th Oct. 1865	Godfrey Anthony Ermen.
Improvements in machinery or apparatus known as "roving," "intermediate," "slubbing" and "throstle" frames and "doublers," and also in winding machines used for preparing, spinning and winding cotton, wool, flax, silk and other fibrous substances. (*collars or bearings.*)	2713	20th Oct. 1865	William Sumner.
Obtaining sliding surfaces by the interposition and circulation of a liquid or gaseous fluid between the frictional surfaces. (*axles or bearings.*)	2729	21st Oct. 1865	Louis Dominique Girard.
An improved axle-box for supplying oil to the journals of railway vehicles. (*Communicated by Prosper Piot and Edmond Piot.*)	2737	23rd Oct. 1865	William Edward Gedge.
Machinery for rolling shafts and axles - - (*Communicated by Thomas Cooper.*)	2904	11th Nov. 1865	Alfred Vincent Newton.
Crank axles of locomotives for railroads - - (*Communicated by Dyer Williams.*)	2908	11th Nov. 1865	William Robert Lake.
Means of connecting drums or pulleys with their shafts or drivers. (*Communicated by Leverett Homer Olmsted.*)	2933	14th Nov. 1865	William Clark.
Apparatus for signalling on railways - - (*bearings with india-rubber packings.*)	3032	25th Nov. 1865	Charles Frederick Whitworth.
Shaft shackles - - - - - (*Communicated by Louis Hollenback.*)	3044	27th Nov. 1865	William Robert Lake.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops. (*coupling shafts and gas pipes.*)	3068	29th Nov. 1865	Richard Howarth.
Improvements in the manufacture and treatment of railway bars, tyres and axles; also in the construction of furnaces, machinery and apparatus connected therewith.	3084	1st Dec. 1865	Thomas Weatherburn Dodds.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes. (*adapting the coupling to shafts.*)	3093	2nd Dec. 1865	Thomas Aldridge Weston.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
AXLES, &c.—*continued.*			
Improvements in reaping and mowing machines, part of which is applicable to machinery in general. (*lubricating bearings.*)	3142	6th Dec. 1865	Adam Carlisle Bamlett.
Naves and axletree boxes of carriage wheels - -	3210	12th Dec. 1865	Levi Lemon Sovereign.
Improvements in the bearings of certain wheels and pulleys applicable to various kinds of machinery.	3231	14th Dec. 1865	William Winter.
Improvements in the manufacture of axles for carriages and spindles for various purposes, and in machinery to be employed in the said manufacture, part of which improvements in machinery may also be applied to other purposes - - - - - -	3336	26th Dec. 1865	Elias Lones. Joseph Constant Lones. John Lones. John Brettell. Thomas Brettell. Charles Vernon.
Improvements applicable to the lubrication of machinery.	3342	27th Dec. 1865	Joshua Rea.
Duplex steam-engines - - - - - (*construction of brasses.*)	3350	27th Dec. 1865	Norman Willis Wheeler.
Machinery for boring, turning, and shaping articles of metal - - - - - - - (*crank axles, bushes and bearings.*)	3362	29th Dec. 1865	William Harrison. Thomas Walker.
For Bearing Springs, *see* "SPRINGS."			
BAGS, BASKETS, SACKS, HOLDERS AND FASTENINGS.			
Mail and despatch bags and bags for other similar uses. (*Communicated by Thomas James Claxton.*)	733	15th March 1865	George Tomlinson Bousfield.
Improved apparatus for securing the frame carrying the fittings in travelling bags.	816	23rd March 1865	Louis Augustus Leins.
Manufacture of flock fabrics - - - (*for travelling bags.*) (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
An improved manufacture of waterproof fabric - (*for travelling bags.*) (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
Manufacture of carpets and other terry and cut pile fabrics. (*for travelling bags.*) (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Ornamental fences and baskets to contain flowers and other articles.	1806	7th July 1865	William Goulding.
Construction of travelling and other bags - -	2001	2nd Aug. 1865	Heiman Frankenburg.
Construction of sewing-machines particularly adapted for sewing sacks and bags - -	2067	9th Aug. 1865	Barnabas Russ. Edward Gandell the younger.
Machinery or apparatus for the manufacture of paper bags. (*Communicated by Delavan Clark.*)	2116	16th Aug. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BAGS, &c.—*continued.*			
Locks for trunks, bags, dressing-cases and other like articles. (*Communicated by Nicolas Chrétien Goynaud.*)	2360	15th Sept. 1865	Richard Archibald Brooman.
Improved machinery for the manufacture of bags and envelopes made of paper or other fibrous materials, or woven or textile fabrics, either separately or combined.	2420	22nd Sept. 1865	Henry Rankin.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for travelling bags.*)	2423	22nd Sept. 1865	Matthew Cartwright.
An improvement in clasps or fastenings - - (*for bags.*)	2525	2nd Oct. 1865	Frederic Jenner.
Improvements in satchels and in the manufacture of the gussets of leather satchels, bags and purses, and of the gussets of other articles made of leather.	2707	20th Oct. 1865	Frederick Thompson.
An improved fastening for travelling bags and other similar receptacles. (*Communicated by Auguste Schubeus.*)	2814	1st Nov. 1865	Louis Pfeiffer.
Frames and fastenings of carpet and other bags -	2850	4th Nov. 1865	John King. Alfred Watson.
Machinery for cutting paper - - - - (*making bags.*)	3189	11th Dec. 1865	Thomas Corfauld Usher.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*a material for baskets.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for game and nose bags, travelling bags, bands for hampers, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
BATHS AND BASINS; BATHING APPLIANCES.			
Improvements applicable to air cushions, mattresses, portable baths and other like air inflated articles.	317	4th Feb. 1865	Arthur Henry Robinson.
A new or improved combined garment - - (*bathing dress.*)	423	14th Feb. 1865	Robert Pasco Barrett.
Apparatus for supplying regulated or measured quantities of water and other fluids. (*to wash basins.*)	707	13th March 1865	Robert Gordon Rattray.
Fire-places and flues and apparatus connected therewith. (*flues for heating baths.*)	989	7th April 1865	Edward Welch.
Manufacture and application of glass and other vitreous compositions - - - (*for wash basins.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BATHS, &c.—*continued.*			
Driving apparatus for hair brushing and shampooing by machinery	1490	31st May 1865	Thomas Appleton Browne. John Knight.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fire-proof flexible roofing, ship and boat building, and for other similar purposes (*washstand and bath mats.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Apparatus to be used in swimming (*or bathing.*) (*Communicated by Jean Baptiste Victor Chastel.*)	1982	31st July 1865	William Clark.
Improvements in ice houses and in glaciaria or skating places, and in baths.	2292	6th Sept. 1865	Augustus William Parker.
A new revolving cover for dishes, bowls and other vessels requiring a moveable cover. (*for basins.*) (*Communicated by Julius Rhodes Pomeroy.*)	2531	3rd Oct. 1865	Charles Pomeroy Button.
Apparatus for administering injections and douches to the human body.	2555	5th Oct. 1865	William Robert Barker.
An improved overflow for basins, sinks and baths	2637	12th Oct. 1865	Hugh Hourston Craigie.
Bath apparatus (*Communicated by Aloys Büngens.*)	2749	25th Oct. 1865	William Clark.
Manufacture of tanks, baths, mangers and other vessels.	3129	5th Dec. 1865	Edward Headly.
Construction of door mats, flesh and bath brushes made principally of india-rubber.	3216	13th Dec. 1865	George Barber.
BAYONETS, DAGGERS, SWORD-HANDLES, SCABBARDS.			
A combined key and weapon of defence (*Communicated by Timoleon de Bourrousse de Laffore.*)	552	27th Feb. 1865	Richard Archibald Brooman.
Improvements in breech-loading fire-arms, and in cartridges and bayonets for breech-loading fire-arms. (*Communicated by Charles Rochaz.*)	1356	16th May 1865	Richard Archibald Brooman.
Means of securing the handles of table knives and forks and other similar articles.	2671	16th Oct. 1865	Thomas M'Grah.
BELLS; ACTUATING BELLS.			
Fog and storm signals, buoys and spindles (*automatically ringing a bell.*) (*Communicated by William Smith Sampson.*)	125	14th Jan. 1865	Theodore Bourne.
Apparatus or bell alarms to facilitate the communication between passengers and guards of railway trains, which said apparatus is equally applicable to apartments and other similar purposes.	545	27th Feb. 1865	Ferdinand Dancart.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BELLS, &c.—*continued.*			
Improved apparatus for the protection of houses and property from burglars, parts of the invention being applicable for other purposes.	619	6th March 1865	Cromwell Fleetwood Varley.
Apparatus for making communications from one part of a building to another.	1143	24th April 1865	John Joseph Parkes.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
An improved indicator for electric bells and a new battery manipulator combined, for ringing electric bells and other signals.	2421	22nd Sept. 1865	Walker Moseley.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops. (*spring bell-ringing instrument.*)	3068	29th Nov. 1865	Richard Howarth.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for bell-pulls and ropes.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
BELTS, BRACES, GIRTHS AND BANDS.			
An improved belt for ladies' wear - - -	17	3rd Jan. 1865	Louis Goldberg.
Manufacture of driving bands or belts for machinery and other purposes - - - -	300	3rd Feb. 1865	George Hurn. Daniel Hurn.
Improvements in the construction of life belts, swimming belts, jackets and buoys, and in the employment and utilization of certain materials in the manufacture of the same.	341	7th Feb. 1865	Charles Kilburn.
A new or improved apparatus for supporting and steadying the arm in rifle shooting.	1014	8th April 1865	Jean Baptist Hausman.
Improvements applicable to capes, paletôts, overcoats and other such like garments.	1128	22nd April 1865	John Emary.
A new or improved fastening for fastening articles of dress, which said fastening is also applicable to the joining of belts and bands, and to other like purposes.	1165	26th April 1865	Charles William Heaven.
Fasteners for driving bands, straps, belts, harness or other such like purposes - - - - -	1222	1st May 1865	Joseph Felix Allender. Thomas Frederick Cashin.
Apparatus for elongating and contracting waist and other belts, which apparatus is also applicable for other purposes - - -	2224	29th Aug. 1865	George Frederick White. Harvey Chamberlain.
Manufacture of bands, belts or straps for harness, for driving machinery or for other purposes.	2619	11th Oct. 1865	James Crutchett.
Fasteners for driving bands, straps, belts, harness or other such like purposes - - - - -	2802	31st Oct. 1865	Thomas Frederick Cashin. Joseph Felix Allender.
A new or improved elastic belt or band truss -	3017	24th Nov. 1865	Charles Reader.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BELTS, &c.—*continued.*			
Improvements in the manufacture or production of stays, corsets and bodices and other similar articles of dress, and in the fastenings for same. (*applicable to belts.*)	3072	30th Nov. 1865	Stephen Dixon.
Manufacture of leather driving belts	3148	7th Dec. 1865	Clarke Ducheane Hitchcock. John Shimmon.
Obtaining and employing continuous lengths of tanned leather for various useful purposes (*for garters.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
BLEACHING AND DECOLOURISING.			
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads.	718	14th March 1865	Longin Gantert.
Treating the waste liquors obtained in bleaching certain vegetable substances.	797	22nd March 1865	Harold Potter.
Washing or steeping and bleaching textile or fibrous materials. (*Communicated by Messieurs. Neyret, Orioli and Fredet.*)	1144	24th April 1865	William Clark.
Machinery for stretching cotton and other fabrics or materials. (*applied to bleachers' mangles.*)	1317	12th May 1865	James Hesford.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor (*for bleach works.*)	1996	2nd Aug. 1865	James M'Ewan. William Neilson.
Machinery used in washing, bleaching and dyeing yarns and textile fabrics in the hank	2113	16th Aug. 1865	John Smith. William Schofield.
An improved liquid composition for cleansing, scouring and bleaching textile animal, mineral and vegetable substances	2440	23rd Sept. 1865	Gustave Emile Rolland. Emile Léon Rolland.
Machinery and apparatus for bleaching, soaping, clearing and washing fibrous and other materials, yarns and fabrics	2501	29th Sept. 1865	William Schofield. John Smith.
Bleaching feathers (*Communicated by Adolphe Pierre Viol and Cèsaire Pierre Duflot.*)	2987	20th Nov. 1865	William Clark.
Dyeing, printing and other operations based on chemical reactions. (*discharging or decolouring.*) (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
Machinery for drying and bleaching grain and other materials. (*see* "THRASHING.")	3276	19th Dec. 1865	William Creasy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Bobbins and Cop-tubes.			
Spools or bobbins to be used in certain frames for preparing fibrous materials for spinning.	1127	22nd April 1865	Joshua Henry Wilson.
Machinery or apparatus for spinning, doubling or twisting cotton and other fibrous materials -	1551	6th June 1865	Alfred Pemberton. Alfred William Pemberton.
Certain improvements in machinery or apparatus for turning and cutting wood and other substances to be employed in the manufacture of spools or bobbins or other similar articles.	1773	5th July 1865	John Braithwaite.
Improvements in sewing-machines and in winders for sewing-machines - - - - -	2165	23rd Aug. 1865	Henry Willis. George Rice.
Bobbins or spools used in spinning and winding yarns and threads. (*Communicated by Charles Reynolds.*)	2368	16th Sept. 1865	Jehiel Keeler Hoyt.
Bobbin holders - - - - - - - (see "Spinning.")	2406	21st Sept. 1865	John Goulding.
Bones, Ivory and Horn; Carbonising Bones.			
Improvements in extracting and purifying fats and other products from bones and other animal substances, and in apparatus for the same.	93	11th Jan. 1865	Alfred George Lock.
New or improved compositions in imitation of ivory and woods, to be employed in the manufacture of umbrella tips, umbrella and walking stick handles and other useful and ornamental purposes - - - - - - - -	1682	23rd June 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Apparatus employed in grinding corn and other substances capable of being ground by millstones. (*steamed bones.*)	3126	5th Dec. 1865	Edward Alfred Cowper.
New or improved compositions in imitation of ivory and wood, to be employed in the manufacture of umbrella tips, umbrella and walking-stick handles and other useful and ornamental purposes - - - - - - - -	3310	22nd Dec. 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*applicable as ivory, horn, bone, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Books, Albums, Portfolios, Book Covers, Book Slides or Holders; Book-binding.			
A new or improved machine for trimming or cutting the edges of books, magazines and such like articles	324	6th Feb. 1865	William Henry Latham. Frederic Cartwright Ward Latham.
A chemical combustible substance and apparatus to which it is applicable. (*to apparatus for bookbinders.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
Manufacture of letter clips, bookmarkers, paper knives and clips for suspending stationery, drapery and pictures, and for other such like purposes	933	3rd April 1865	Thomas Corbett. Robert Harrington.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for pocket books.*)	2423	22nd Sept. 1865	Matthew Cartwright.
Portfolios and paper files (*Communicated by Henry Tillinghast Sisson.*)	2468	26th Sept. 1865	George Tomlinson Bousfield.
An improvement in clasps or fastenings (*for albums and books.*)	2525	2nd Oct. 1865	Frederic Jenner.
An improved fastening for books, portfolios, despatch boxes and other similar articles	2664	16th Oct. 1865	Joseph Orrin. Thomas Geer.
Manufacture of embossed wood (*for book covers.*) (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
Portfolios, writing desks, writing cases and other similar apparatus.	2918	13th Nov. 1865	John Stephens.
Locks or catches for portmonnaies, portfolios or other articles	2939	15th Nov. 1865	George Chambers. George Gregory.
A covering or cap for protecting the ends of maps, drawings, rolls of paper and other materials that are capable of being rolled up.	3175	9th Dec. 1865	Saint George Howels Davies-Gwyn.
Boots, Shoes, Leggings, Skates; Cleaning Boots.			
Machinery for shaping and trimming the heels of boots and shoes. (*Communicated by Charles Helms.*)	49	6th Jan. 1865	George Haseltine.
Manufacture of boots, shoes, saddlery, harness and other articles. (*Communicated by Touissaint Landrin.*)	169	19th Jan. 1865	William Clark.
Boots and shoes	190	23rd Jan. 1865	John Eadie.
Improvements in the manufacture of boots and shoes, and in apparatus therefor.	291	2nd Feb. 1865	Andrew Murray.
Fastenings for stay-busks, leggings, gaiters and other similar articles.	349	7th Feb. 1865	George Twigg.

Subject matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boots, &c.—*continued.*			
Manufacture of boots, shoes and other coverings for the feet	381	10th Feb. 1865	George Coles. James Archibald Jaques. John Americus Fanshawe.
Case hardening, or converting partially into steel, articles of wrought or malleable iron. (*skate irons.*) (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
Waterproofing skins, hides and leather (*for boots and shoes.*)	413	14th Feb. 1865	George Harton.
An improved system of manufacturing clog soles, patten boards and similar articles by machinery.	416	14th Feb. 1865	Robert John Jones.
Manufacture of boots, shoes and other like coverings for the feet. (*Communicated by Alexandre Leverd.*)	442	16th Feb. 1865	Richard Archibald Brooman.
Machinery for sewing or uniting leather and other hard substances, particularly applicable to the manufacture of boots and shoes.	484	21st Feb. 1865	Charles Baulch.
Gaiters, spatterdashes and other similar articles	569	1st March 1865	Jean Baptiste Touissaint.
Manufacture of shoes and other coverings for the feet	637	7th March 1865	Alexandre Eugene Adolphe Aubert. Gustave Eugene Michel Gerard.
An improved system of closing spatterdashes, applicable also to boxes, portemonnaies and other similar articles.	658	9th March 1865	Emile Carchon.
An improvement in heels for boots, shoes and other like articles.	710	14th March 1865	George Evans.
Manufacture of boots and shoes	784	21st March 1865	Daniel Gourley.
Socks, soles or feet protectors, to be used loose in boots and shoes, or affixed thereto	908	31st March 1865	John Poole. Thomas Brown.
An improved flexible spring waist for boots and shoes.	1034	11th April 1865	Benjamin William Leslie Nicoll.
Elastic binders for boots and shoes (*Communicated by Daniel Franklin Packer.*)	1050	12th April 1865	William Edward Newton.
A new or improved shoe or sandal for facilitating the art of swimming.	1145	24th April 1865	Aaron Atkins.
Manufacture of flock fabrics (*for shoes and shoe linings.*) (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
Manufacture of boots and shoes (*Communicated by William Emerson Baker.*)	1318	12th May 1865	George Haseltine.
Improvements in vessels for containing blacking, polishing oils and other similar materials, and in apparatus connected therewith.	1327	12th May 1865	Thomas Davis.
Machinery for manufacturing clog and patten soles	1351	16th May 1865	Walter Brown.
Skates (*Communicated by August Muller.*)	1720	28th June 1865	Wilhelm Bever.
Manufacture of boxes suitable among other uses for containing paste blacking and other cheap marketable articles. (*Communicated by Edwin Price.*)	1789	6th July 1865	Alfred Vincent Newton.
Instruments used in cutting the soles of boots and shoes.	1868	18th July 1865	John Pusey Wint.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boots, &c.—*continued.*			
Protecting crinoline steel, stay-busks, springs for leggings or gaiters and other similar fastenings.	1883	19th July 1865	William Edwards.
An improved mode of lacing boots, shoes and other articles united by laces. (*Communicated by Van Wagener.*)	1931	25th July 1865	John Henry Johnson.
An improved fastening for leggings or other articles	2124	17th Aug. 1865	Frederick John Jones.
Applying elastic material to boots, shoes and such like coverings for the feet	2132	18th Aug. 1865	Matthew Cartwright. Augustus Dale.
Improvements in boots and other coverings for the feet, which improvements are applicable also to trunks and other articles, for the purpose of strengthening, preserving or protecting them. (*Communicated by Jacob Nichols and Moses Pettes.*)	2133	18th Aug. 1865	Phineas Lawrence.
Skates (*Communicated by James Greenwood.*)	2180	25th Aug. 1865	Joseph Ingall Barber.
Construction of skates (*Communicated by James Leonard Plumpton.*)	2190	25th Aug. 1865	Alfred Vincent Newton.
An improved roller skate	2221	29th Aug. 1865	Washington Parker Gregg.
Brushes (*for wiping shoes.*)	2236	30th Aug. 1865	George Smith. Charles Ritchie.
Construction of boots and shoes	2339	13th Sept. 1865	James Dunbar.
Manufacture of boots and shoes	2410	21st Sept. 1865	Henry Hibling.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for gaiters.*)	2423	22nd Sept. 1865	Matthew Cartwright.
Socks for boots and shoes	2428	22nd Sept. 1865	Charles White. Thomas White.
An improvement in the manufacture of waterproof soles for boots and shoes.	2449	25th Sept. 1865	John Wiggins Coburn.
Manufacture of knickerbockers and such like coverings for the legs.	2460	26th Sept. 1865	William Ambler.
Elastic fronts, sides and backs for boots and shoes	2640	13th Oct. 1865	Matthew Cartwright.
Construction and mode of fixing skates to the boots or shoes of the wearer.	2642	13th Oct. 1865	William May.
An improved mode of uniting pieces of leather, more especially adapted to the manufacture of boots and shoes. (*Communicated by John Chipman Hoadley.*)	2750	25th Oct. 1865	George Haseltine.
Improvements in roller skates, and in the rollers to be used therewith and for other purposes.	2770	27th Oct. 1865	Robert Bell Sanson.
Machinery employed in the manufacture of boots and shoes.	2785	28th Oct. 1865	Claudius Erskine Goodman.
Improved knickerbockers or leggings	2788	30th Oct. 1865	Jabez Stanley.
Skates (*Communicated by Owen Wilson Taft.*)	2790	30th Oct. 1865	Frederick Tolhausen.
Means and apparatus for finishing the soles of boots and shoes.	2861	6th Nov. 1865	Robert Fludc.
Manufacture of boots and shoes	2877	8th Nov. 1865	Charles Mole.
Certain improvements in the manufacture of socks or inner soles for boots and shoes.	2910	11th Nov. 1865	David Adam Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boots, &c.—*continued.*			
Machinery for cutting and rounding boot and shoe soles of leather and other analogous substances. (*Communicated by John Gillingham Felt.*)	2916	13th Nov. 1865	Nathaniel Henry Felt.
Lacing-boots and shoes - - - -	3019	24th Nov. 1865	George Moreton.
Improvements in sewing-machines and in sewing or embroidering. (*sewing leather.*)	3079	1st Dec. 1865	Isaac Merritt Singer.
Improved arrangement of the parts in sewing-machines, for using wax thread for sewing on the soles of boots and shoes.	3170	9th Dec. 1865	William Jackson.
Utilizing scraps or small pieces of leather - - (*waste in boot making.*)	3263	18th Dec. 1865	John Farmerley Dickson. John Barrs.
Improvements in the manufacture of boots and shoes for rendering them waterproof.	3270	19th Dec. 1865	James Bolton.
Foot protectors - - - - - -	3273	19th Dec. 1865	Augustus Henry Thurgar.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for boots or shoes.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Manufacture of boots and shoes - - -	3371	29th Dec. 1865	John Hall.
Boring, Drilling, Rifling and Punching; Gimlets, Augers and Bracebits.			
Drilling apparatus for hand or steam power, adaptable also as a vice and for lifting purposes -	18	3rd Jan. 1865	George Hodgson. James Pitt.
Apparatus for transmitting and converting reciprocating motion into rotary motion, applicable to various useful purposes. (*actuating drills.*)	145	17th Jan. 1865	William John Cunningham.
Improvements in certain sewing-machine shuttles, and in the mode of and tools for manufacturing the same.	163	19th Jan. 1865	George Francis Bradbury.
Improvements in fire-arms and in ammunition for the same. (*rifling barrels.*)	188	21st Jan. 1865	Jacob Snider, jun^{r}.
Improvements in preparing for fixing and in fixing plates or sheets of metal, such as are used for roofing and other similar purposes.	232	26th Jan. 1865	George Dibley.
Action and arrangement of drilling machines, turning lathes and other machine tools in which a variable speed is required.	241	27th Jan. 1865	John Combe.
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks - - (*piercing the holes.*)	399	13th Feb. 1865	David Barr. William Henry Page. James Clement Newey.
Apparatus for operating engineers' and carpenters' tools by hand or other power. (*for drilling, boring, slotting, punching, &c.*) (*Communicated by Henry Winsor.*)	600	3rd March 1865	James Spence.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BORING, &c.—*continued.*			
Machinery for cutting, punching, raising, shaping or drawing through sheet metal, by means of tools and dies.	795	22nd March 1865	George Farmer.
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
An improved hand drilling machine - -	1015	8th April 1865	Joseph White.
Improvements in boring or excavating and blasting rocks and minerals, and in the treatment of the tools employed therein.	1192	28th April 1865	Julian Bernard.
Machinery for drilling boiler and other plates of metal, and for rivetting them together.	1291	10th May 1865	Daniel Adamson.
Improvements in power looms for weaving and in apparatus connected therewith. (*punching holes in metal cylinders.*)	1307	11th May 1865	William Jamieson.
Improvements in the mode of rifling muzzle-loading cannon, and in projectiles for the same. (*Communicated by John Seipel.*)	1332	13th May 1865	William Spence.
Machinery for the manufacture of hinges - - (*Punching the strips.*) (*Communicated by Jean Baptiste Evrard and Jean Pierre Boyer.*)	1335	13th May 1865	William Clark.
Certain improvements in the manufacture of gun barrels and ordnance - - - - -	1341	15th May 1865	William Deakin. John Bagnall Johnson.
Machinery or tools for cutting metals or other materials.	1571	9th June 1865	William Wilson Hulse.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Hammers and other machines actuated by steam or other fluid or vapour - - - - - (*machines for punching.*)	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Portable punching apparatus - - -	1706	26th June 1865	John Medhurst.
Heating chisels, knives, plane irons, gouges, augers, steels, shears, scythes and saws.	1715	27th June 1865	William Brooks.
Machinery or apparatus for cutting, punching and bending sheet metal. (*Communicated by Nathan Harper.*)	1728	29th June 1865	Robert Henry Leese.
Improved machinery for boring rocks and hard substances.	1778	5th July 1865	George Low.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein. (*perforating discs.*)	1975	31st July 1865	John Ramsbottom.
Apparatus for cutting scales for knives and forming metal webs for knives.	1988	1st Aug. 1865	William Singleton.
An improved combination drill brace - -	2212	28th Aug. 1865	Edward Davies. Richard Hobbs Taunton.
Improvements in the manufacture of tubes for gun barrels and other purposes, parts of which improvements are also applicable to the manufacture of rods or bars, and to the rifling of ordnance and fire-arms.	2351	14th Sept. 1865	Gustavus Palmer Harding.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boring, &c.—*continued.*			
An improved form of rifling for fire-arms and ordnance.	2354	14th Sept. 1865	Wilmot Burrows Edward Ellis.
A new or improved method of and apparatus for securing or fastening metal plates to beams, rafters and other places, for roofing and other purposes.	2384	19th Sept. 1865	Robert Fox.
Machinery for making casks, barrels and other wooden vessels of capacity. (*boring bung holes.*)	2426	22nd Sept. 1865	James Davidson.
Improvements in the manufacture of horse-shoes, and in the machinery used for such manufacture. (*Communicated by Léon Chrysostôme Viel and Pierre Michel Sibut.*)	2433	23rd Sept. 1865	George Davies.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for working punches, adjusting cutters, &c.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Improvements in rifling fire-arms, and in missiles or projectiles used in such, and in the machinery for the production of these improvements.	2488	28th Sept. 1865	William Ellis Metford.
Improved self-centering and tightening chucks for drilling machines, lathes and other machines in which chucks are used. (*Communicated by John Edwin Earle.*)	2491	28th Sept. 1865	Edward Thomas Hughes.
Improvements in connections for and in stopping pipes used for conveying water and gas and for other like purposes, and in preventing leakages in the said pipes, and in apparatus employed therein. (*and drilling.*)	2503	29th Sept. 1865	Charles Forster Cotterill.
Instruments for punching or perforating leather and other materials - - - -	2556	5th Oct. 1865	Edward Marsland. Peter Williams.
Improvements in submarine electric telegraph cables, and in apparatuses connected therewith. (*punching press for perforating gutta percha.*)	2605	10th Oct. 1865	François Thierry Hubert.
Manufacture of tyres for railway wheels - - (*punching.*)	2654	14th Oct. 1865	William James Armitage. Fairfax Wooler. John Hodgson.
Improvements in the construction of braces for bits, applicable also as stocks, handles or holders for holding tools and other articles to which stocks, handles or holders are applied.	2735	23rd Oct. 1865	John Orvis.
Improvements in the manufacture of wheels for railway carriages, and in the machinery to be employed therein. (*drilling machines.*)	2771	27th Oct. 1865	Thomas Greenwood.
Improvements in tools and apparatus employed in blasting, boring and cutting rock, stone and other hard substances, and in the means employed for making such tools.	2774	27th Oct. 1865	Julian Bernard.
Machinery for mortising, tenoning and boring hard or soft woods and drilling iron.	2820	2nd Nov. 1865	James Curtis.
An improved bit for boring mortices in wood or other material.	2857	6th Nov. 1865	William Tighe Hamilton.
Fire-arms and projectiles - - - - (*rifling barrels.*)	2902	11th Nov. 1865	Charles William Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BORING, &c.—*continued.*			
Machinery or apparatus for stamping or impressing railway or other tickets. (*perforating.*)	3005	22nd Nov. 1865	Alfred Lancefield.
An improved screwing and tapping machine -	3166	9th Dec. 1865	Emile Watteeu.
Machinery for boring rock and other mineral - (*Communicated by Carl Sachs.*)	3218	13th Dec. 1865	Frederick Bernard Dœring.
Improvements in the furniture of door locks and latches, and in the means used in applying the same. (*apparatus for cutting holes.*)	3290	20th Dec. 1865	John Martin.
An improvement in envelopes - - - (*perforating.*)	3331	23rd Dec. 1865	Frederic Jenner.
Improvements in the construction aud manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles. (*casting punch blocks.*)	3332	23rd Dec. 1865	Francis William Webb.
Machinery for boring, turning and shaping articles of metal - - - - - - -	3362	29th Dec. 1865	William Harrison. Thomas Walker.
BOTTLES AND JARS; STOPPERS, CAPSULES AND CORKS; STOPPERING, CLOSING AND OPENING BOTTLES AND JARS; CORK-SCREWS; BOTTLE-HOLDERS.			
Stoppers for bottles, jars, vessels and tubes, also for ordnance and fire-arms.	27	4th Jan. 1865	Nathan Thompson.
Preparing and keeping aërated beverages - -	39	5th Jan. 1865	Thomas Pickford.
Improved means of closing the mouths of bottles or other vessels - - - - - -	132	16th Jan. 1865	Henry James Rogers. Jonathan Mather Scholfield.
An improved apparatus for containing and dispersing scents and other liquids.	194	23rd Jan. 1865	Edward Atkinson.
Corkscrews - - - - - - -	283	1st Feb. 1865	Joseph Roper.
Stoppering bottles or other similar vessels, and measuring quantities therefrom.	414	14th Feb. 1865	William Conway Hine.
An improved method of stopping bottles - -	464	18th Feb. 1865	John James Chidley.
Manufacture of ornamented articles of glass - (*decanters, wine glasses, &c.*)	497	22nd Feb. 1865	Thomas George Webb.
An improvement in air-tight jars for preserving eggs and fruits and such like articles of food.	546	27th Feb. 1865	George Kennedy Geyelin.
Stopping bottles - - - - - (*Communicated by Henry Bateman Goodyear.*)	606	4th March 1865	John Henry Johnson.
Cork cutting machinery - - - - - (*Communicated by François Perret.*)	638	7th March 1865	William Clark.
Stoppers for closing bottles and for other like purposes.	646	8th March 1865	George Ireland.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOTTLES, &c.—*continued.*			
Improvements in stoppers for bottles, jars or other vessels, the same being applicable to fire-arms and ordnance.	814	23rd March 1865	Charles Henry Crowe.
Protective labels for bottles, jars and other similar vessels.	853	25th March 1865	William Betts.
An improvement or improvements in ornamenting articles made of glass. (*decanters and drinking vessels.*)	868	28th March 1865	Joseph Williams.
Vessels or apparatus for melting sealing wax, glue or other substances. (*for sealing bottles.*) (*Communicated by Frederick Kührmann.*)	931	3rd April 1865	William Bünger.
An improved implement for removing corks from the interior of bottles and other vessels. (*Communicated by Francis Daniel Pastorius and John Jackson.*)	1132	22nd April 1865	George Haseltine.
Improved apparatus for pouring and decanting liquids.	1149	25th April 1865	Nicholas Sibly.
Manufacture and application of glass and other vitreous compositions - - - - (*making bottles.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
An improvement in stoppers and flasks, bottles and other similar vessels.	1320	12th May 1865	Spencer Thomas Garrett.
Improvements in vessels for containing blacking, polishing oils and other similar materials, and in apparatus connected therewith.	1327	12th May 1865	Thomas Davis.
Vessels or receptacles for containing oil and other liquids.	1359	16th May 1865	Svend Svendsen.
An improved method of securing corks or stoppers in bottles. (*Communicated by Gustave Bousigues.*)	1373	18th May 1865	Richard Archibald Brooman.
An improved bottle stopper - - - (*Communicated by John Matthews.*)	1466	29th May 1865	William Settle.
Corks or bungs for closing bottles and other receptacles for liquids. (*Communicated by Adolphe Jacquesson.*)	1539	5th June 1865	John Henry Johnson.
Improvements in the construction of the necks of bottles and other vessels, and in means for closing or covering the mouths of such bottles or vessels.	1570	9th June 1865	Howard Busby Fox.
Improvements in envelopes or wrappers for covering, packing and protecting bottles, jars or other fragile articles, and in apparatus for manufacturing the same.	1650	20th June 1865	George Clark.
A new and improved food or fluid regulator for feeding bottle and other tubes.	1727	28th June 1865	William Botham.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fire-proof flexible roofing, ship and boat building and for other similar purposes - (*stoppers for bottles.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Ornamental tables and table stands, such as cruet frames, liqueur frames, flower, egg and other stands - - - - - -	1925	25th July 1865	Louis Pêtre. Edward Samuel Tucker.
Manufacture of capsules - - -	2093	12th Aug. 1865	William Betts.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BOTTLES, &c.—*continued.*			
An improvement in the manufacture of metallic capsules.	2125	17th Aug. 1865	Eugene Rimmel.
Packing-cases or boxes for holding or packing bottles or bottled liquids.	2141	18th Aug. 1865	John Hope.
Apparatus for stopping bottles - - -	2150	19th Aug. 1865	James Battle Austin.
An improvement in syphons - - - (*for bottles, jars, &c.*)	2168	23rd Aug. 1865	Lippmann Jacob Levisohn.
Apparatus for supplying carbonic acid gas to casks and other vessels from which beer, wine and other fermented liquors are drawn. (*constructing corks or stoppers.*)	2187	25th Aug. 1865	Charles Adolphus Watkins.
Improved means of securing corks in the necks of bottles.	2233	30th Aug. 1865	William Henry Postlethwaite Gore.
Apparatus for stopping bottles - - -	2246	31st Aug. 1865	William Thomas Read.
Machinery for cutting and shaping cork, with apparatus for registering the manufacture.	2393	20th Sept. 1865	Leon Villette.
Construction of vessels for preserving food and liquids.	2473	27th Sept. 1865	Louis Henri Gillet.
Manufacture of scent and smelling bottles - -	2599	9th Oct. 1865	Thomas Miles.
Improvements in tompions for ordnance and small arms, and in stoppers for bottles and other vessels. (*Communicated by George Richard Willmot.*)	2650	13th Oct. 1865	William Edward Newton.
Manufacture of chemical toys known as Pharaoh's serpents. (*and capsules for same.*)	2694	18th Oct. 1865	Thomas King.
Packing and labelling bottles, jars and other fragile articles.	2775	28th Oct. 1865	George Clark.
A new or improved machine for drawing corks from bottles.	2844	4th Nov. 1865	Henry John Sanders.
A new or improved bottle fountain for pocket and other purposes.	2847	4th Nov. 1865	Jean Nadal.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes - - - - (*Communicated by Henry Pinkus.*)	2906	14th Aug. 1865	Robert Alexander William Westley.
An improved trap or liquid sealing to the covers of cisterns, pans, jars, tubs and other vessels or chambers - - - - -	2986	20th Nov. 1865	George Putland Hemming. Henry Coyle.
Cork cutting machines - - - (*Communicated by George Hammer and Alfred Butz.*)	3033	25th Nov. 1865	John Henry Johnson.
BOXES, TRUNKS, PORTMANTEAUS, LETTER-BOXES, WORK-BOXES, DRESSING-CASES, CANISTERS.			
An improved ornamental flower box - - (*see* "HORTICULTURE.")	126	14th Jan. 1865	George Colven.
Fire and thief proof safes, chests and strong room doors.	543	27th Feb. 1865	Walter Henry Tucker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boxes, &c.—*continued.*			
Improvements in the construction of joints for boxes, drawers and other like articles, and for planks and timbers, and in machinery to be used in the preparation of such joints. - -	640	7th March 1865	Henry William Wimshurst.
An improved system of closing spatterdashes, applicable also to boxes, portemonnaies and other similar articles.	658	9th March 1865	Emile Carchon.
Fire and burglar proof safes, chests, doors and iron rooms.	695	11th March 1865	John Tann.
Manufacture of jewelry cases and other similar cases.	803	22nd March 1865	John James Carter.
An improvement in the construction of cartridge and other boxes. (*Communicated by Robert Augustus Chesebrough.*)	902	30th March 1865	Alfred Vincent Newton.
Improved means of preventing the leakage of barrels, and of rendering packages and fabrics impervious to air and gases. (*Communicated by Lewis Francis and Cyrus Loutrel.*)	913	31st March 1865	Alfred Vincent Newton.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*for lining boxes.*) (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Manufacture and application of glass and other vitreous compositions - - - - (*for boxes.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
Certain improvements in hydraulic presses for packing cotton and other materials or substances, and in the boxes for containing the same - -	1280	9th May 1865	Edward Taylor Bellhouse. William John Dorning.
Manufacture of boxes suitable among other uses for containing paste blacking and other cheap marketable articles. (*Communicated by Edwin Price.*)	1789	6th July 1865	Alfred Vincent Newton.
An improved manufacture of coffins and air-tight receptacles.	1804	7th July 1865	Joseph George.
The use and application of paper, printed or otherwise ornamented with water colors, for covering floors and other analagous purposes as a substitute for carpets and oil cloths, and of an improved coating or varnish to be applied to the same to protect its surface from injury and wear. (*and for covering trunks.*)	1873	19th July 1865	Anson Henry Platt.
Construction of travelling and other bags - -	2001	2nd Aug. 1865	Heiman Frankenburg.
Certain improvements in the mode of fixing safes, boxes or other depositories for the protection of papers or other materials from fire.	2061	11th Aug. 1865	Peter Carlsson Kjellberg.
Improvements in boots and other coverings for the feet, which improvements are applicable also to trunks and other articles, for the purpose of strengthening, preserving or protecting them. (*Communicated by Jacob Nichols and Moses Pettes.*)	2133	18th Aug. 1865	Phineas Lawrence.
Packing cases or boxes for holding or packing bottles or bottled liquids.	2141	18th Aug. 1865	John Hope.
Construction of iron safes, strong boxes and other receptacles.	2294	7th Sept. 1865	John Matthias Hart.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Boxes, &c.—*continued.*			
Locks for trunks, bags, dressing-cases and other like articles. (*Communicated by Nicolas Chrétien Goynaud.*)	2360	15th Sept. 1865	Richard Archibald Brooman.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for portmanteaus.*)	2423	22nd Sept. 1865	Matthew Cartwright.
Construction of vessels for preserving food and liquids.	2473	27th Sept. 1865	Louis Henri Gillet.
An improved fastening for books, portfolios, despatch boxes and other similar articles - -	2664	16th Oct. 1865	Joseph Orrin. Thomas Geer.
Manufacture of embossed wood - - - (*for boxes.*) (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
Portfolios, writing desks, writing cases and other similar apparatus.	2918	13th Nov. 1865	John Stephens.
Manufacture of boxes or receptacles for merchandise. (*Communicated by François Barthélemy Loubatières.*)	3006	22nd Nov. 1865	John Henry Johnson.
Shields for trunks or packages - - - (*Communicated by Alford House and Henry Alonzo House.*)	3022	24th Nov. 1865	William Edward Newton.
Waterproof linings of cases, boxes and apparatus in which articles are desired to be packed waterproof.	3201	11th Dec. 1865	John Jonas.
Boxes or cases for needles - - - -	3309	22nd Dec. 1865	Richard Newhall.
Improvements in the manufacture of safes, and in apparatus connected therewith. (*and chests, deed boxes, &c.*)	3321	23rd Dec. 1865	Samuel Chatwood.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*ropes for chests, portmanteaus, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Bread, Biscuits and Pastry; Kneading-machines; Bakers' Ovens.			
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads and floating piers, gangways, breakwaters and other similar structures, also as a motive power. (*working bread making apparatus.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Roberts Markham.
Certain improvements in the manufacture of magnesium and its compounds - - - (*making gas for aërating bread.*)	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREAD, &c.—*continued.*			
Machinery or apparatus for kneading or working dough. (*Communicated by Jean Joseph Etiénne Lenoir.*)	483	21st Feb. 1865	John Henry Johnson.
Machinery or apparatus for baking biscuits -	555	27th Feb. 1865	George Thomas Ellwick.
Fire-places and flues and apparatus connected therewith. (*baking ovens.*)	989	7th April 1865	Edward Welch.
Baking of bread, biscuits and other farinaceous articles.	1108	20th April 1865	John Yeldham Betts.
Ovens for baking bread - - - -	1346	15th May 1865	John Dauglish.
Improvements in coke and charcoal ovens and in the manufacture of coke, parts of which are applicable to bread, biscuit and pastry ovens.	2477	27th Sept. 1865	William Morgans.
Apparatus for impressing designs upon biscuits made by machinery.	2508	29th Sept. 1865	George Gillett.
Manufacture of lozenges, cakes and other similar articles from plastic substances.	2534	3rd Oct. 1865	Charles James Tinker.
Treatment of flour and the manufacture of bread -	2973	18th Nov. 1865	John Crawford Walker.
Machinery or apparatus for cutting bread - -	3251	15th Dec. 1865	Henry Charles Litchfield.
Boilers or apparatus for generating steam - - (*for baking.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Machinery for raising or forming articles of sheet metal. (*lemon cake dishes.*) (*Communicated by Mellen Bray.*)	3319	22nd Dec. 1865	George Tomlinson Bousfield.
BREAKS, SKIDS AND BUFFERS FOR CARRIAGES AND RAILWAYS.			
Method of and apparatus for applying electro-magnetism as a break power to railway and other carriages and machines - - -	101	12th Jan. 1865	Frederic Barnes. David Hancock. Edward Cowpe.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Machinery for stopping railway trains - - (*Communicated by Candido Ravelli.*)	487	22nd Feb. 1865	Eugenio Jesurum.
Construction of buffers for railway carriages -	513	23rd Feb. 1865	William Rowe.
An improved means of securing and protecting the india-rubber rings of buffer springs of railway carriages, which invention is also applicable to air-pump and valve seatings and lids faced with india-rubber.	626	6th March 1865	William John Oliver.
Railway breaks - - - - - (*Communicated by Charles Louis Joseph Félix Jacquot.*)	745	17th March 1865	Henri Adrien Bonneville.
Improved mechanical arrangements for stopping or retarding railway carriages, waggons and trucks.	1021	10th April 1865	George Voigt.

Subject-matter of Patent.	Number of Patent	Date.	Name of Patentee.
BREAKS, &c.—*continued.*			
Certain improvements in brakes for railway carriages.	1431	25th May 1865	Jules Xavier Joseph Barbaix.
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick Tolhausen.
An improved force dispeller or spring buffing apparatus.	1599	13th June 1865	William Jeffrey Hopkins.
An improved self-acting break for four-wheeled carriages.	1604	13th June 1865	James Griffiths.
Drags for carriages - - - - -	1680	23rd June 1865	Archibald Edward Dobbs, B.A.
An improved apparatus for stopping railway trains	1684	23rd June 1865	William Jeremiah Murphy.
Means of and apparatus for retarding the velocity of the wheels of railway and other carriages when in motion.	1710	27th June 1865	Henry Shaw.
Means applied for arresting and stopping the motion of locomotive engines, trains, carriages and other rolling stock of railways.	1736	30th June 1865	Patrick Denis Finnigan.
Improvements in railway carriages, which improvements are intended to neutralize the destructive effects arising from the collision of trains.	1746	30th June 1865	Louis Faure.
Locomotive engines - - - - (*Communicated by Auguste De Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Apparatus for stopping and retarding railway carriages and locomotive engines.	1759	3rd July 1865	Joseph Naveaux.
An improved break for retarding the progress of wheel carriages. (*Communicated by François Piatti.*)	1810	8th July 1865	William Edward Newton.
Apparatus for retarding the progress of railway carriages and trains.	1954	28th July 1865	William King.
An improved break for railway and other wheeled carriages.	1959	28th July 1865	Robert Brightmore Mitchell.
Means or apparatus for stopping or retarding railway carriages - - - - -	1969	29th July 1865	John Swinburne. James Laming.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward M'Nally.
Improved means or apparatus for retarding or stopping railway carriages and trains.	2045	7th Aug. 1865	John Mead.
Apparatus or mechanism for stopping or retarding railway trains.	2154	21st Aug. 1865	William Shakespear.
A new or improved method of and apparatus for applying electro-magnetism as a break power on railways - - - - -	2238	31st Aug. 1865	Edward Cowpe. David Hancock.
An improved hydraulic break for railway and other purposes.	2337	12th Sept. 1865	William Jeremiah Murphy.
Railway breaks - - - - - (*Communicated by Eugène Etienne Berthomieux, Jean Massieu and Louis Duverdier.*)	2375	18th Sept. 1865	Michael Henry.
Railway carriages and other vehicles - - - (*operating the breaks.*) (*Communicated by Henry Hudson Trenor.*)	2394	20th Sept. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREAKS, &c.—*continued.*			
Atmospheric buffing apparatus	2520	2nd Oct. 1865	Thomas Williams.
Brakes for carriages and other vehicles	2561	5th Oct. 1865	Archibald Richard Shaw.
Mechanical arrangements for stopping or retarding railway carriages, waggons and trucks.	2595	9th Oct. 1865	George Voight.
Certain improvements in breaks for carts, wagons and other vehicles.	2617	11th Oct. 1865	Thomas Warburton.
Carriages propelled by manual power	2623	11th Oct. 1865	Thomas Du Boulay.
Improvements in common road carriages and in breaks for the same.	2687	18th Oct. 1865	James Rock the younger.
An improved arrangement of buffing and drawing apparatus for railway carriages	2840	3rd Nov. 1865	George Wilson. William Kitching Hydes.
Breaks	2927	14th Nov. 1865	Joseph Williamson. James Lindley. James Coleman.
An improved arrangement of mechanism for stopping or retarding railway carriages, waggons, trucks or other rail or tram road vehicles	2942	15th Nov. 1865	Louis Alexis Velu. François Eugène Fosse. Louis Eugène Alphonse Fosse.
An improved drag for carriages	3227	14th Dec. 1865	Archibald Edward Dobbs, M.A.
Breaks or apparatus for stopping or retarding railway trains.	3386	30th Dec. 1865	David William Thomas.
BREWING, FERMENTING, MANUFACTURING AND TREATING BEER, WINE, &c.; YEAST; TREATING MALT AND HOPS.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures (*for wine coolers.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Filtering apparatuses (*wine, beer, &c.*)	249	28th Jan. 1865	Victor Burg.
A new or improved method or process and apparatus for obtaining the concentrated extract of hops, and for preserving the same from deterioration. (*Communicated by George Percy, Walter Wells, Charles Brown, John Mulford and John Maximilian Webb.*)	306	4th Feb. 1865	Joseph Rideal Webb.
Improvements in mashing machines and in apparatus connected therewith.	481	21st Feb. 1865	Robert Willison.
Improvements in securing low and uniform temperatures, applicable to public and private buildings, also to refrigerators, coolers and condensers, and to ships and other vessels, and in the apparatus employed therein. (*cooling apparatus for breweries.*) (*Communicated by Daniel Somes.*)	719	14th March 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BREWING, &c.—*continued.*			
An improved composition for clarifying and fining beer and other fermented liquors.	799	22nd March 1865	William Juby Coleman.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*for beverages.*)	864	27th March 1865	Ferdinand Le Roy.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
A mode of obtaining decoctions and apparatus for carrying the same into effect. (*from hops.*) (*Communicated by Benjamin Green Martin.*)	1227	2nd May 1865	Francis Wise.
An improved refrigerator and condenser - -	1249	4th May 1865	Josiah Hampton.
Improvements in brewing, distillation, the production of vinegar and the extract of malt and other grain.	1263	5th May 1865	Solomon Bennett.
Improvements in drying malt and grain, and in the machinery or apparatus connected therewith.	1297	10th May 1865	John Forbes.
Obtaining jellies, syrups, drinks and other products from the tree Arbutus Unedo, known as the Arbutus. (*wines and liqueurs.*)	1649	20th June 1865	Philippe Mingaud.
Improvements in distilling and rectifying, and in the apparatus employed therein, parts of which improvements are applicable to steam generators.	1662	20th June 1865	Evariste Vignier.
An improved brewers' and distillers' refrigerator or apparatus for cooling liquids, condensing steam or other vapours.	1700	26th June 1865	Morris Ashby.
Improving draught beer, ale, porter and cider -	1781	6th July 1865	Thomas Symes Prideaux.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - - (*malt.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Means or apparatus for promoting the combustion of fuel in furnaces of steam-boilers, dyers' or brewers' pans and other furnaces, whereby smoke is prevented and fuel economized - -	1972	31st July 1865	Benjamin Robinson. Joseph Varley.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor - (*for breweries.*)	1996	2nd Aug. 1865	James M'Ewan. William Neilson.
Improvements in brewing and distilling, also in drying yeast, and in the apparatus employed.	2019	4th Aug. 1865	Patrick Robertson.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Improvements in cisterns or chambers for the steeping of grain in the manufacture of malt, which improvements are also applicable to other chambers or enclosures.	2492	28th Sept. 1865	Charles Edmund Davis.
Certain improvements in the production and uses of carbonic acid gas. (*preserving fermented liquors.*)	2660	16th Oct. 1865	Albert Julius Mott.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Brewing, &c.—*continued.*			
Treating brewers' grains in order to render them more suitable for the food of animals.	2998	10th Nov. 1865	Edward John Davis.
A new kind of unfermented and unintoxicating malt liquor, which shall keep sound for any period of time.	3047	28th Nov. 1865	Charles Henry Newman.
Fining, purifying and mellowing spirituous liquors by combining therewith other substances, for the production of a new spirituous or vinous compound therefrom.	3071	30th Nov. 1865	William Thompson.
Improvements in the treatment of grain and in the process of malting, and in the apparatus employed therein.	3087	1st Dec. 1865	William Rowland Taylor.
A new and improved compound to be employed as a drinking beverage. (*Communicated by Edward Dorn.*)	3203	12th Dec. 1865	Joachim Kaspary.
Bricks, Tiles and Building Blocks.			
Machinery or apparatus for the manufacture of compressed bricks.	77	10th Jan. 1865	Humphrey Chamberlain.
Machinery for compressing coal dust and other materials fit for burning, also clay into bricks, tiles, pipes and other like articles.	220	26th Jan. 1865	William Smith.
Improvements in fixing frost screen awnings and netting for protecting wall-fruit trees, in fixing trellis for training fruit and other trees to walls, and in bricks therefor.	287	1st Feb. 1865	Charles Anthony Wheeler.
An improvement in the manufacture of artificial stone for building and other purposes.	441	16th Feb. 1865	William Kirrage.
An improved preparation or treatment of clay for the manufacture of bricks - - -	452	17th Feb. 1865	Richard Hill. Robert Tushingham.
Machinery for making and pressing bricks - -	480	21st Feb. 1865	Charles William Homer.
Improved machinery or apparatus for scouring stones, marbles, slates and bricks - -	686	11th March 1865	Jonas Hird. Joshua Walker.
Portable or fixed machines for the manufacture of bricks and tiles, whether plain or for ornamental purposes - - - - - -	767	18th March 1865	Charles William Spark. Thomas Sprawson Cross. William Adkins.
Improvements in the manufacture of bricks and in the apparatus employed therein - -	939	3rd April 1865	Alfred Lockwood. Alfred Lockwood, jun^{r}.
Bricks - - - - - - -	1698	26th June 1865	Thomas Lewis Jowett.
Improvements in the manufacture of gas retorts and other articles made of fire-clay, and in furnaces for burning the same, and for other purposes. (*making fire-door tiles.*)	1737	30th June 1865	William Schofield.
An improved mode of pressing and moulding clay, sand or cement, for making bricks and for other purposes. (*Communicated by John Steele.*)	1748	1st July 1865	William Robert Lake.
Roofing tiles and slabs - - - - -	1991	1st Aug. 1865	Frederick Ransome.
Paints or preparations for coating surfaces - - (*coating bricks.*)	2015	3rd Aug. 1865	Ernest Leslie Ransome.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRICKS, &c.—*continued.*			
Manufacture of bricks and blocks for building and other purposes	2068	9th Aug. 1865	James William Sumner. Clement Augustus Scott.
Manufacture of terra-cotta or vitreous stone	2071	10th Aug. 1865	Mark Henry Blanchard.
Certain improvements in machinery for making bricks. (*Communicated by Egbert Cox Bradford and James Henry Renick.*)	2149	19th Aug. 1865	William Edward Newton.
An improved method of ornamenting the surfaces of tiles.	2378	18th Sept. 1865	Henry Venables.
Improvements in the manufacture of bricks, blocks, flue covers and tiles, and in the machinery and apparatus employed therefor.	2392	19th Sept. 1865	James Gillespie.
Machinery used in the manufacture of bricks and tiles.	2398	20th Sept. 1865	William Porter.
Manufacture of bricks and other analogous materials	2571	6th Oct. 1865	Victor Jean Baptiste Germaix.
Tiles for roofing	2693	18th Oct. 1865	John Taylor, jun^{r}.
Machinery for screening, tempering and moulding clays and earths into bricks, tiles and other articles.	2728	21st Oct. 1865	Isaac Roberts.
Manufacture of bricks and artificial stone and marble.	2867	7th Nov. 1865	David Barker.
Improvements in the manufacture of bricks for building and other purposes, and in apparatus therefor.	2915	13th Nov. 1865	Edwin Guthrie.
Manufacture of bricks or building blocks	2967	17th Nov. 1865	Louis Gonzague Speyser.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*blocks for constructive purposes.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Machinery for the manufacture of bricks	3125	5th Dec. 1865	Peter Bawden.
Improved machinery for compressing and solidifying coal, clay and other analogous substances.	3242	14th Dec. 1865	Henry George Fairburn.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for oil proofing bricks.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
BRIDGES, VIADUCTS AND AQUEDUCTS.			
Improvements in the permanent way of railways and in buckled plates to be used therein, the same being applicable to the construction of fire-proof buildings, bridges and other like structures, also in the machinery or apparatus for producing such improved plates.	164	19th Jan. 1865	Robert Mallet.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRIDGES, &c.—*continued.*			
Improvements in the construction of roadways, pavements and iron girders specially applicable for the purpose of constructing roads, pavements, bridges and all description of buildings.	335	7th Feb. 1865	Constantine Henderson.
Improvements in buoys, beacons, floats or pontoons, which improvements are also applicable to floating bodies generally - -	387	11th Feb. 1865	Charles Atherton. Amherst Hawker Renton.
An improved blowing apparatus - - - (*for bridge builders.*)	427	15th Feb. 1865	Samuel Richards Freeman. Abraham Grundy.
Improvements in the construction of beams or supports applicable to the building of bridges, viaducts, roofs, arches and ships, and in instruments to be used therein.	578	1st March 1865	William Edward Kochs.
Construction of bridges - - - -	633	7th March 1865	Edward William Young.
Construction of bridges and arches - -	888	29th March 1865	Frederick Allen Leigh.
Improvements in casting iron girders and in apparatus therefor. (*for railway bridges.*)	1304	11th May 1865	James Goodwin.
Manufacture of iron piers or erections, applicable more especially for carrying bridges at high elevations, or available for sheer legs and light-houses.	1533	5th June 1865	Charles De Bergue.
Construction of roadways, floorings or other surfaces (*for bridges.*)	1639	17th June 1865	Thomas Russell Crampton.
Construction of suspended bridges, roads, aqueducts or other way.	1765	4th July 1865	Sylvain Benjamin Labouret.
Construction of sliding or rolling bridges - -	1934	26th July 1865	Michael Kenney.
Manufacture of iron and steel - - - (*rolling girders.*) (*Communicated by Martin Dieudonné Henvaux.*)	1964	29th July 1865	Ephraim Sabel.
An improved system of constructing cast and other iron bridges, viaducts and other similar structures. (*Communicated by William Cowell Teasdale.*)	2226	30th Aug. 1865	William Brookes.
A new and improved cement - - - (*for viaducts, railway bridges, &c.*)	2863	7th Nov. 1865	Thomas Grason. James O'Donoghue.
Bridges and viaducts - - - -	3246	15th Dec. 1865	Charles De Bergue.
Constructing and mooring floating structures - (*or pier of a bridge.*)	3265	18th Dec. 1865	Charles Liddell. Robert Stirling Newall.
BRUSHES AND BROOMS.			
Improvements in brushes for brushing the hair, which improvements are also applicable to brushes for other purposes.	61	7th Jan. 1865	Theophilus Horrex.
Improvements in the construction of brushes used for brushing the human or other hair, and in the apparatus or means connected therewith.	214	25th Jan. 1865	Casimir Roques.
Machinery or apparatus for brushing the hair -	343	7th Feb. 1865	John Butler Watters.
Brushes or brooms - - - -	764	18th March 1865	James Vero.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BRUSHES, &c.—*continued.*			
An improved application of rotating brushes, and in the mechanism and apparatus connected therewith.	920	1st April 1865	John Drinkwater.
An improved application of rotating brushes to the grooming or cleaning of horses and other quadrupeds.	1033	12th April 1865	John Haworth.
Improvements in door and other mats, part of which improvements is also applicable to brushes and brooms, and to producing card or tooth surfaces employed in operating on various fibrous substances.	1283	9th May 1865	Thomas Jefferson Mayall.
Brooms or brushes - - - - -	1482	30th May 1865	William Martin.
Manufacture of mats, matting and brushes -	1758	3rd July 1865	George Hurn. Daniel Hurn.
An improved arrangement of machinery for brushing hair.	2058	8th Aug. 1865	Samuel Middleton.
Brushes - - - - - - - -	2236	30th Aug. 1865	George Smith. Charles Ritchie.
Hair brushing machinery or apparatus - -	2278	5th Sept. 1865	Joseph Neat. Francis Ford.
Brooms or brushes for sweeping and dusting -	2336	19th Sept. 1865	George Smith. Charles Ritchie.
Machinery for brushing hair - - - - -	2417	22nd Sept. 1865	Frederick Thomas Brandreth. John Henry Brandreth.
Apparatus for polishing and brushing - -	2655	14th Oct. 1865	James Lamb Hancock.
Improvements in brushes for hair dressing and other uses, also in brooms and apparatus for cleaning, preparing, painting, coating and smoothing surfaces - - - - -	2985	20th Nov. 1865	George Smith. Charles Ritchie.
Hair brushing apparatus - - - - -	2994	21st Nov. 1865	George Smith. George Smith, junr. Charles William Smith.
Certain improvements in the manufacture of brushes - - - - - - - -	3060	29th Nov. 1865	James Stokes. Thomas Gray.
Construction of door mats, flesh and bath brushes made principally of india-rubber.	3216	13th Dec. 1865	George Barber.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*For stiffening fibres for brushes, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
BUILDING, PLASTERING, FLOORING AND ROOFING; WALLS, CEILINGS AND CORNICES; TENTS; LADDERS.			
Construction of public houses and other houses of entertainment.	1	2nd Jan. 1865	William Muir.
Construction of roofs or coverings of buildings -	129	14th Jan. 1865	Félix Clovis Fourgeau.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
Improvements in the permanent way of railways and in buckled plates to be used therein, the same being applicable to the construction of fireproof buildings, bridges and other like structures, also in the machinery or apparatus for producing such improved plates.	164	19th Jan. 1865	Robert Mallet.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes.	174	20th Jan. 1865	Louis Balma.
Mode of working hydraulic lifts - - -	180	20th Jan. 1865	William Clay.
Ground vineries or glass ridges for the cultivation of grapes or other fruit.	204	24th Jan. 1865	Charles Tennant Wells.
Improvements in preparing for fixing and in fixing plates or sheets of metal, such as are used for roofing and other similar purposes.	232	26th Jan. 1865	George Dibley.
Improvements in the construction of roadways, pavements and iron girders specially applicable for the purpose of constructing roads, pavements, bridges and all description of buildings.	335	7th Feb. 1865	Constantine Henderson.
An improvement in the manufacture of artificial stone for building and other purposes. (*for copings, window sills, &c.*)	441	16th Feb. 1865	William Kirrage.
Iron safes and strong rooms - - - -	459	17th Feb. 1865	James Fergusson.
New or improved indicating apparatus for the protection of railway passengers, buildings, rooms, safes and other objects - - - - (*see* "SIGNALS.")	472	18th Feb. 1865	Leicester William Glen Rowe. Adolphe Baab.
Iron safes and strong rooms - - -	499	22nd Feb. 1865	George Nathaniel Shore.
Improved portable frames and joints for tables and other articles, applicable also for building purposes and the like.	542	27th Feb. 1865	Charles Whiting.
Fire and thief proof safes, chests and strong room doors.	543	27th Feb. 1865	Walter Henry Tucker.
Improvements in the construction of beams or supports applicable to the building of bridges, viaducts, roofs, arches and ships, and in instruments to be used therein.	578	1st March 1865	William Edward Kochs.
An improvement in fitting sliding partitions in stables and other buildings.	610	4th March 1865	Louis Le Chevallier Cottam.
Rolls for connecting sheets of zinc and other metals employed for covering roofs and other enclosures.	662	9th March 1865	Rowland George Fisher.
Fire and burglar proof safes, chests, doors and iron rooms.	695	11th March 1865	John Tann.
An improvement in securing safes and strong rooms.	702	13th March 1865	Henry Hill.
Construction of walls, houses and other buildings -	822	23rd March 1865	Joseph Tall.
Construction of bridges and arches - -	888	29th March 1865	Frederick Allen Leigh.
Improvements in the treatment of meal and the dressing of flour, and the machinery and apparatus employed therein. (*constructing grinding mills.*)	898	30th March 1865	William Savory.
An improved safety tackle for raising and lowering heavy weights. (*in building.*)	937	3rd April 1865	Pierre Joseph Jamet.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
Iron safes and strong rooms - - -	1056	13th April 1865	John Chubb. Robert Goater.
Constructing portable hot rooms or chambers for drying cloths and other articles.	1135	24th April 1865	Welburn Williamson.
Fire-escapes and portable ladders - - -	1164	26th April 1865	Thomas Dixon Whitehead.
Construction of fireproof buildings - - -	1170	26th April 1865	John Cunningham.
Improvements in casting iron girders and in apparatus therefor.	1304	11th May 1865	James Goodwin.
Improvements in tents and stalls, and in the means of fixing them in the ground.	1315	12th May 1865	Emile Cordonnier.
Manufacture of carpets and other terry and cut pile fabrics. (*when worn will serve as roof covers.*) (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Manufacture of iron piers or erections, applicable more especially for carrying bridges at high elevations, or available for sheer legs and light-houses.	1533	5th June 1865	Charles De Bergue.
Method of constructing partitions, walls, floors and roofs of buildings.	1598	13th June 1865	John James Bodmer.
Construction of roadways, floorings or other surfaces	1639	17th June 1865	Thomas Russell Crampton.
Improvements in tubular structures rendering them specially applicable for ships' masts and building purposes.	1755	3rd July 1865	Edward Deane.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes -	1775	5th July 1865	John Longbottom. Abram Longbottom.
Construction of portable dark tents or chambers for photographers.	1808	7th July 1865	James Willis.
Manufacture of iron and steel - - - (*rolling girders.*) (*Communicated by Martin Dieudonné Heureux.*)	1964	29th July 1865	Ephraim Sabel.
Manufacture of iron rails and girders - - (*Communicated by Martin Dieudonné Heureux.*)	1976	31st July 1865	Ephraim Sabel.
Paints or preparations for coating surfaces - - (*coating stucco.*)	2015	3rd Aug. 1865	Ernest Leslie Ransome.
Construction of shop fronts and other similar parts of buildings.	2054	8th Aug. 1865	William Reid Corson.
Construction of cowhouses - - - -	2102	14th Aug. 1865	John Gamgee.
An improved method or process for ornamenting walls and other surfaces of buildings. (*Communicated by Carl Friedrich Guntter.*)	2138	18th Aug. 1865	George Howard.
A new composition suitable for use as paint and protective coating. (*for roofing or sides of buildings.*) (*Communicated by William Potter.*)	2163	22nd Aug. 1865	John Gilbert Avery.
Improvements in the manufacture of metallic safes and strong rooms, and in apparatus connected therewith.	2265	2nd Sept. 1865	Samuel Chatwood.
Improvements in icehouses and in glaciaria or cool up places, and in baths.	2292	6th Sept. 1865	Augustus William Parker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
A new or improved method of and apparatus for securing or fastening metal plates to beams, rafters and other places, for roofing and other purposes.	2384	19th Sept. 1865	Robert Fox.
Improvements in the construction of safes, strong rooms and other similar depositories, and in the locks thereof - - - - - -	2457	26th Sept. 1865	Claude Parigot. Antoine Grivel the younger.
Improvements in fittings for stables, cowsheds and piggeries, and in effluvium traps for stables and other places.	2499	28th Sept. 1865	Edward Cottam.
Means employed for fixing sheet metal for roofing and other purposes.	2522	2nd Oct. 1865	James William Tyler.
Construction of fireproof floors for buildings -	2578	6th Oct. 1865	John Cunningham.
Construction of wrought-iron girders - -	2593	7th Oct. 1865	Julius Homan.
Constructing fireproof floors and ceilings - -	2594	7th Oct. 1865	Julius Homan.
Certain improvements in window fittings - -	2603	10th Oct. 1865	William Cooke.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating walls and floors to prevent damp.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improved preparation or composition for coating, covering or coloring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses.	2638	12th Oct. 1865	William Barwick.
Tiles for roofing - - - - - -	2693	18th Oct. 1865	John Taylor, jun^{r}.
Construction of roadways, floorings and other surfaces.	2756	26th Oct. 1865	Thomas Russell Crampton.
An improved safety net to arrest the fall of persons or heavy bodies under circumstances of danger. (*for use in house building.*)	2969	18th Nov. 1865	Léon Edouard Laurency.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*for inlaid flooring; to preserve from damp, &c.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Apparatus applicable for fire-escapes and builders' scaffolds.	3128	5th Dec. 1865	Edward Vagg.
Improvements in the construction of safes, strong rooms and other similar depositories, and in the locks thereof.	3169	9th Dec. 1865	Antoine Grivel the younger.
Constructing the treads of steps or stairs - -	3306	21st Dec. 1865	George Hawksley.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required. (*for towers of observation.*)	3314	22nd Dec. 1865	Edward Deane.
Improvements in the manufacture of safes and in apparatus connected therewith. (*and strong rooms.*)	3321	23rd Dec. 1865	Samuel Chatwood.
Improvements in safes and in protecting the locks and bolts of safes, and other locks and bolts - (*applicable to strong rooms.*)	3324	23rd Dec. 1865	Joseph Groves. George Robinson the younger.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUILDING, &c.—*continued.*			
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for tents or marquees, ladder ropes, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
For ventilating buildings, *see* "VENTILATION." For warming buildings, *see* "HEATING." For lighting buildings, *see* "LAMPS."			
BUOYS, SWIMMING BELTS, DRESSES AND APPARATUS; BUOYING AND DIVING; PRESERVING LIFE AND PROPERTY IN CASE OF SHIPWRECK; MARINE LIGHTS.			
Fog and storm signals, buoys and spindles - (*Communicated by William Smith Sampson.*)	125	14th Jan. 1865	Theodore Bourne.
Improvements in the construction of life belts, swimming belts, jackets and buoys, and in the employment and utilization of certain materials in the manufacture of the same.	341	7th Feb. 1865	Charles Kilburn.
Protecting wooden surfaces from the fouling and injury to which they are ordinarily liable in sea water (*buoys.*)	363	9th Feb. 1865	John Cornelius Cragie Halkett.
Improvements in buoys, beacons, floats or pontoons, which improvements are also applicable to floating bodies generally - - -	387	11th Feb. 1865	Charles Atherton. Amherst Hawker Renton.
An improvement in paints or compositions used for coating iron or wooden vessels and other structures exposed to the action of sea water. (*buoys, &c.*)	871	28th March 1865	John Cornelius Craigie Halkett.
Means and apparatus employed for illuminating lighthouses.	945	4th April 1865	John Richardson Wigham.
A new or improved shoe or sandal for facilitating the art of swimming.	1145	24th April 1865	Aaron Atkins.
An improved composition for coating iron or other vessels, and for other similar purposes. (*buoys, &c.*)	1278	9th May 1865	John Cornelius Craigie Halkett.
Manufacture of iron piers or erections, applicable more especially for carrying bridges at high elevations, or available for sheer legs and lighthouses.	1533	5th June 1865	Charles De Bergue.
Producing a light applicable to photographic purposes, to lighthouses and to other illuminations.	1653	20th June 1865	Prospero Carlevaris.
A new or improved apparatus for producing the magnesium light. (*for lighthouses.*)	1696	24rd June 1865	Charles Ross Bamber.
Improvements in tubular structures rendering them specially applicable for ships' masts and building purposes. (*for lighthouses.*)	1755	3rd July 1865	Edward Deane.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for generating light for lighthouses.*)	1780	6th July 1865	Hermann Beigel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUOYS, &c.—*continued.*			
A diving apparatus for submarine purposes - -	1837	12th July 1865	Thomas Cato M'Keen.
A new and improved mode of elevating ships or boats in the water, to enable them to pass over sand bars, shallows and the like, and for raising sunken vessels and docks.	1838	12th July 1865	Thomas Cato M'Keen.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Apparatus to be used in swimming - - (*Communicated by Jean Baptiste Victor Chastel.*)	1982	31st July 1865	William Clark.
Floating lights, beacons, floating batteries and other vessels.	2173	24th Aug. 1865	John Moody.
The improvement of the means of and apparatus for laying submarine electrical telegraphic wires, lines, cables or other contrivances of a like sort.	2670	16th Oct. 1865	Reinhold Edward Kaulbach.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
Raising sunken vessels - - - - -	2764	26th Oct. 1865	Thomas Page.
Means of preventing vessels from sinking, which means are also applicable for raising sunken vessels.	2851	4th Nov. 1865	Thomas Page.
An improved nautical safety apparatus - -	3045	28th Nov. 1865	François Mols.
Producing an oxy-hydro-magnesian light, applicable to photographic purposes, to lighthouses and to other illuminations. (*Communicated by Prospero Carlevaris.*)	3248	15th Dec. 1865	Thomas Parker.
Constructing and mooring floating structures -	3265	18th Dec. 1865	Charles Liddell. Robert Stirling Newall.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required. (*for lighthouses.*)	3314	22nd Dec. 1865	Edward Deane.
Obtaining and employing continuous lengths of tanned leather for various useful purposes. (*tackle for life buoys.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
For life boats *see* "SHIP BUILDING."			
BUTTONS, BUCKLES, STUDS, SLEEVE-LINKS AND OTHER DRESS FASTENINGS.			
Improvements in sleeve-links, which improvements are also applicable to other dress fastenings and ornaments.	120	14th Jan. 1865	William Henry Richards.
Apparatus for securing studs in shirt fronts and similar garments.	175	20th Jan. 1865	Charles Searle.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUTTONS, &c.—*continued.*			
Fastenings for stay-busks, leggings, gaiters and other similar articles.	349	7th Feb. 1865	George Twigg.
Manufacture of buttons - - - - (*Communicated by Joseph Edouard Mittler, senior.*)	594	2nd March 1865	William Clark.
An improved system of closing spatterdashes, applicable also to boxes, portemonnaies and other similar articles.	658	9th March 1865	Emile Carchon.
Machinery for cutting, punching, raising, shaping or drawing through sheet metal, by means of tools and dies. (*shells for buttons.*)	795	22nd March 1865	George Farmer.
Fastenings for pins, buttons and other articles with metallic backs.	881	28th March 1865	Isac Louis Pulvermacher.
Fastenings for sleeve-links, solitaires and other like purposes.	947	4th April 1865	Henry Jenkins.
Improvements in buttons and in devices for securing the same to fabrics. (*Communicated by Willoughby Hahn Reed.*)	1007	8th April 1865	George Davies.
Elastic binders for boots and shoes - - (*Communicated by Daniel Franklin Packer.*)	1050	12th April 1865	William Edward Newton.
Manufacture of buttons - - - -	1110	21st April 1865	Thomas Greaves. John Skirrow Wright.
A new or improved fastening for fastening articles of dress, which said fastening is also applicable to the joining of belts and bands and to other like purposes.	1165	26th April 1865	Charles William Heaven.
An improved manufacture of buttons - -	1199	29th April 1865	George Augustus Huddart.
An improvement in buttons and means of attaching the same.	1294	10th May 1865	Herbert William Hart.
An improved arrangement for fastening shirts, collars and other articles of wearing-apparel, by which the ordinary button or stud is dispensed with.	1615	15th June 1865	Stanislaus Helcman.
An improved description of stud for fastening shirts, cuffs, waistcoats and other articles of wearing-apparel.	1616	15th June 1865	Stanislaus Helcman.
An improved shank for buttons, studs and solitaires.	1930	25th July 1865	Henry Wright.
Certain improvements in the manufacture of linen buttons.	2066	9th Aug. 1865	William Aston.
Machines for making eyelets - - - (*Communicated by James Louis Harlem and Theodore Luzerne Payne.*)	2079	10th Aug. 1865	William Edward Newton.
Fastenings for sleeve-links, solitaires, brooches and other articles of jewellery - - - -	2103	15th Aug. 1865	Reuben Cornelius Lilly. James Sunderland.
An improved fastening for leggings or other articles	2124	17th Aug. 1865	Frederick John Jones.
Manufacture of buttons - - - -	2146	19th Aug. 1865	Charles Edkins. James Newman. Thomas Greaves.
An improvement in clasps or fastenings - -	2525	2nd Oct. 1865	Frederic Jenner.
Certain new and useful improvements in shirt collars and bosoms - - - - (*Communicated by Celius Edgar Richards.*)	2627	12th Oct. 1865	Vernon Augustus Messinger. Virgil Jackson Messinger.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
BUTTONS, &c.—*continued.*			
Certain improved methods of manufacturing or arranging the spring bolts and attendant parts of sleeve-links, and other like articles where the means of a portable connection are required -	2665	16th Oct. 1865	John Reading. Samuel Alfred Reading. George Edward Reading. Frederick Francis Reading.
Improvements in buttons and in attaching buttons to garments or fabrics.	2753	25th Oct. 1865	George Augustus Huddart.
Fasteners for driving bands, straps, belts, harness or other such like purposes - - - - (*buckles.*)	2802	31st Oct. 1865	Thomas Frederick Cashin. Joseph Felix Allender.
An improved composition for enamel, paint, varnish, cement or plaster. (*for buttons.*) (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
Improvements in fastenings for waistband buckles, applicable also for other similar purposes.	3132	6th Dec. 1865	Joseph Walker.
An improvement in buttons and studs for fastening garments.	3160	8th Dec. 1865	Florian Dahis.
Improvements in buttons and in the method of attaching buttons and ornaments to garments and other articles. (*Communicated by Frederic Ingersoll Palmer.*)	3164	8th Dec. 1865	George Tomlinson Bousfield.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for buttons.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
CALCULATING, TEACHING.			
Instruments or apparatus for teaching and transposing music. (*Communicated by Ferdinand Bellour.*)	102	12th Jan. 1865	Richard Archibald Brooman.
Numbering machines - - - - -	625	6th March 1865	Thomas Craig. David Carlaw.
Dissected maps and charts - - - - (*for teaching.*) (*Communicated by François Auguste Lauricisque.*)	1137	24th April 1865	Henri Adrien Bonneville.
Means or apparatus to aid in the teaching of arithmetic.	3147	7th Dec. 1865	William Grosvenor.
Improved means of assisting the teaching and study of musical notation.	3196	11th Dec. 1865	Alexander Victor Martinus Marie.
CANDLES; CANDLE AND LAMP WICKS.			
Treating the pitch obtained in or resulting from the distillation of palm oil and other fats, in candle making.	9	2nd Jan. 1865	Robert Irvine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CANDLES, &c.—*continued.*			
A new or improved machine for cutting or forming the tips or points of candles and for other like purposes.	674	10th March 1865	John Lyon Field.
Treating fats and fatty matters for the manufacture of candles. (*Communicated by Emile Dangiville and Victor Baliat.*)	817	23rd March 1865	Richard Archibald Brooman.
An improved method of treating fatty matters -	892	29th March 1865	Samuel Childs, jun^{r}.
Mechanism applicable to frame filling machines for wooden matches, vestas and vesuvians.	1003	8th April 1865	Henry Joseph Simlick.
Manufacture of paraffin candles - - - (*Communicated by Augustin Etienne Person.*)	1286	9th May 1865	John Henry Johnson.
Ornamenting candles - - - - -	1299	10th May 1865	Peter Brash. Robert Irvine.
Manufacture of candles - - - - - (*Communicated by Charles Goublier.*)	2085	11th Aug. 1865	John Henry Johnson.
Improvements in the manufacture of night lights and in apparatus employed therein - -	2367	15th Sept. 1865	Frederick Meyer. Joseph William Freestone.
Manufacture of candles and other illuminating bodies from peat and petroleum.	2580	7th Oct. 1865	Thomas Vincent Lee.
Purification and preparation of animal and vegetable wax, stearine, spermaceti, paraffine and other solid, waxy or fatty substances. (*for candles and tapers.*)	2768	27th Oct. 1865	Scipion Sequelin.
An improvement in the manufacture of friction matches and tapers.	3002	22nd Nov. 1865	Samuel Alexander Bell.
Cups or sockets applied to candles and other lights (*see* "LAMPS.") (*Communicated by Cléanthe St. Coumbary.*)	3187	9th Dec. 1865	William Clark.
CARD-CASES.			
Cases or receptacles for matches, stamps, cards and other articles - - - - -	1121	21st April 1865	George Betjemann. George William Betjemann. John Betjemann.
An improved apparatus for carrying securely railway and other tickets, so as to afford a ready inspection thereof.	2239	31st Aug. 1865	Matthew Woodifield.
CARRIAGES, OMNIBUSES, WAGGONS, CARTS, TRUCKS, VELOCIPEDES.			
Improvements in perambulators, a part or parts of which improvements may also be applied to other wheel carriages.	14	3rd Jan. 1865	Henry Lloyd.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edwards Wilson.
Construction of railway carriages - -	95	11th Jan. 1865	Rock Chidley.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes. (*unloading carts.*)	174	20th Jan. 1865	Louis Balma.
Apparatus for taking up and delivering mails and other parcels in railway trains while in motion. (*Communicated by Julien Eugène Cuvier.*)	177	20th Jan. 1865	William Clark.
Improved carriage step arrangements - -	182	21st Jan. 1865	Henry Arnold Dobson.
Improved apparatus for transmitting letter bags and parcels to and from railway trains whilst in motion. (*Communicated by Charles Louis Ferdinand Varailhon-Lafilolie.*)	187	21st Jan. 1865	Charles Denton Abel.
Construction of carriages - - -	215	25th Jan. 1865	Stephen Leedham Fuller. Arthur Fuller. Charles Martin.
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.
Improvements in the manufacture of ordnance and other like castings and in the apparatus employed therein, also in carriages or moulds for the same. (*Communicated by William Jones.*)	295	2nd Feb. 1865	John Henry Johnson.
A new method for removing or destroying the momentum of heavy bodies by means of an electric machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*carting produce, manure, &c.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Roberts Markham.
Bogie trucks used for supporting railway locomotive engines, carriages and waggons.	404	13th Feb. 1865	William Adams.
An improved machine for clearing, sweeping and removing the refuse from highways, streets and roads or ways, applicable also for removing the leaves of cut grass and other refuse from lawns and other grass lands and walks. (*cart.*)	444	16th Feb. 1865	Henry John Pickard.
An improved means of securing the safety of railway passengers.	454	17th Feb. 1865	Coleman Defries.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*gun carriage.*) (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Permanent way and rolling stock of railways -	520	24th Feb. 1865	John Kennedy Donald.
Construction of a portable vehicle for teaching children to walk and giving assistance to invalids.	537	25th Feb. 1865	John Askew.
Apparatus for coupling and uncoupling railway waggons or carriages.	609	4th March 1865	Daniel Morris. Joseph Morris. James Morris.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Improvements in carriage ways and in carriages for the same.	661	9th March 1865	William Henry James.
Certain improvements in venetian blinds for carriages, and which said improvements are also applicable to certain blinds or screens for other purposes.	676	10th March 1865	Thomas Startin.
Apparatus for enabling the passengers in a railway train to communicate with the guard.	679	10th March 1865	Albert Westhead.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - - -	688	11th March 1865	Charles Middleton Kernot. Nathaniel Symons.
Machinery or apparatus for rolling, shaping or forging metals. (*carriage springs.*)	701	13th March 1865	Robert Marsden.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Improvements in the construction of railway carriages, to facilitate the passage of the guard or other person from end to end of the train whilst it is travelling - - - - - -	866	27th March 1865	John Calvin Thompson. John James Malbourne Green.
A new or improved arrangement of mechanism for propelling waggons in connection with railway hoists.	895	30th March 1865	George Greenish.
Improvements in the construction of locomotive engines and railway carriages, for facilitating their passage round curves - - - (*Communicated by George John Horner.*)	916	31st March 1865	George Robert Stephenson. George Henry Phipps.
An improved application of steam power to locomotion on ordinary roads. (*Communicated by Alfred Taillendeau.*)	1002	8th April 1865	William Edward Gedge.
Means for communicating between the passengers and guards of railway trains, or between two or more different situations. (*Communicated by Thomas Hunt.*)	1030	11th April 1865	John Henry Johnson.
Couplings for railway carriages, waggons, trucks and other vehicles.	1035	11th April 1865	Josiah Dadley.
Apparatus for signalling on railway trains - -	1055	13th April 1865	Albert Westhead.
Apparatus for covering railway trucks or vans and other carriages - - - - - -	1075	17th April 1865	Edward Morgan. George Henry Morgan.
Means of communicating and signalling between the passengers, guards and drivers of railway trains.	1078	17th April 1865	George William Garrood.
Means of covering railway trucks, vans and other carriages.	1090	19th April 1865	William Riddell.
"Pulleys" used by brewers and others for lifting and lowering weights into and out of carts, waggons or trucks.	1091	19th April 1865	Fredric William Gilbert.
Apparatus for communicating and signalling between passengers, guards and drivers of railway trains, by day or by night.	1097	20th April 1865	David Hancock. Thomas Evans.
Wheels and the manner of applying the same to railway carriages for passengers' and goods' traffic, as also the leading wheels for locomotives.	1114	21st April 1865	William Day.
Invalid carriages - - - - - - (*Communicated by Auguste Quitzow.*)	1120	21st April 1865	Henry Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Fire-escapes and portable ladders	1164	26th April 1865	Thomas Dixon Whitehead.
An improved manufacture of waterproof fabric (*for car seating.*) (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
An improved carriage step	1290	10th May 1865	Stephen Leedham Fuller. Arthur Fuller. Charles Martin.
A new mail catching apparatus for bags or packages, without stopping the express trains or others.	1362	16th May 1865	André Chavanne.
An improved method of testing railway and other springs	1374	18th May 1865	Joseph Mitchell. George Tilfourd.
Manu-motive carriages	1388	19th May 1865	George Read.
Apparatus for increasing the safety of railway passengers and trains, signalling, lighting and forming a communication between all parts of such trains, also for securing the carriage doors.	1492	31st May 1865	Richard Howarth.
Construction of vans, waggons or carts employed for transporting furniture and other goods, on common roads and railways.	1495	31st May 1865	Frederick Hazeldine.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Improved arrangements for opening and shutting carriage windows	1613	14th June 1865	Sidney Courtauld. Charles Wilkins Atkinson.
Improvements in lamps for railway and other carriages, and in connecting lamps to carriages, a part of which improvements may also be applied to handles for carriages	1637	17th June 1865	Walter Howes. William Burley.
Locomotive engines and railway carriages	1646	19th June 1865	George Smith the younger.
Improvements in or applicable to railway and other carriage windows.	1718	28th June 1865	John Kay Farnworth.
Improvements in railway carriages, which improvements are intended to neutralize the destructive effects arising from the collision of trains.	1746	30th June 1865	Louis Faure.
Carriages	1767	4th July 1865	Josiah Harrington.
Improvements in locomotive engines and in springs of railway carriages.	1769	4th July 1865	James Edwards Wilson.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes (*lining for carriages.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Carriages for breech-loading ordnance	1801	7th July 1865	Fischer Alexander Wilson.
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
Construction of springs for railroad and other carriages.	1860	15th July 1865	John Crawford Walker.
Construction of railway carriages	1924	25th July 1865	John Rigg.
Construction of omnibuses	1951	27th July 1865	Alexander Cheffins.
Improvements in the construction of atmospheric railways and carriages, and in working the same.	1987	1st Aug. 1865	Alexander Doull.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
A self-acting coupling for railway carriages and wagons	2037	5th Aug. 1865	Thomas Smith. John Brook.
An improved mode of and apparatus for facilitating the transportation and delivery of letters, newspapers and other freight. (*Communicated by Alfred Ely Beach.*)	2049	7th Aug. 1865	Alfred Vincent Newton.
Couplings or fastenings of railway carriages or trucks.	2082	11th Aug. 1865	Richard Douglas Morgan.
Improvements in and applicable to railway carriages, to enable passengers to pass from one compartment to another and to give signals on trains in motion.	2086	11th Aug. 1865	Thomas English Stephens.
Improved safety couplings for railway carriages	2159	22nd Aug. 1865	Frederick Charles Bryan Robinson.
Construction of vans, waggons or carts employed for transporting furniture and other goods on common roads and railways.	2192	26th Aug. 1865	Frederick Hazeldine.
The improvement of the permanent way of railways and carriages for the same.	2227	30th Aug. 1865	James Cole Green.
An improved mode of retaining and preventing the vibration of sliding windows used in dwellings and in railway and other vehicles, and for an improved apparatus for effecting the said purposes	2232	30th Aug. 1865	Thomas Wrigley. Marcus Brown Westhead.
Traction engines and other vehicles	2234	30th Aug. 1865	Samuel Lawrence James.
Applying springs to two-wheeled carriages, to prevent the unpleasant jolting motion of the draught animal attached thereto being communicated to the body of the vehicle.	2242	31st Aug. 1865	William George.
Improvements in the means of fixing or attaching the bobbins of winding and other machines on to their spindles, which improvements are also applicable to other similar or analogous purposes, and to the detaching of railway carriages from trains whilst in motion.	2250	31st Aug. 1865	John Ward.
A new shackle or coupling for connecting railway carriages, wagons and other vehicles used on railroads, whereby going between the carriages, wagons or other vehicles, to couple or uncouple, is rendered totally unnecessary	2268	4th Sept. 1865	Samuel Richards Freeman. Abraham Grundy.
Apparatus used in opening and closing carriage and other windows.	2319	9th Sept. 1865	John Pennington.
A locomotive car	2344	13th Sept. 1865	Joseph Page Woodbury.
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages.	2379	18th Sept. 1865	Russel Aitken.
Sun shades or canopies for perambulators and other wheeled carriages.	2389	19th Sept. 1865	Henry Lloyd.
Railway carriages and other vehicles (*Communicated by Henry Hudson Trenor.*)	2394	20th Sept. 1865	John Henry Johnson.
An improved apparatus or mechanism for locking and unlocking railway carriage doors, and for making signals with reference thereto.	2442	23rd Sept. 1865	John Hawkins Simpson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARRIAGES, &c.—*continued.*			
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - -	2463	26th Sept. 1865	Charles Middleton Kernot. Nathaniel Symons.
Construction of gun carriages - - -	2569	6th Oct. 1865	George Wightwick Rendel.
Construction of railway carriages, waggons and trucks, and other road vehicles.	2581	7th Oct. 1865	Henry Griffith Craig.
Railway carriages and locomotives - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Carriages propelled by manual power - -	2623	11th Oct. 1865	Thomas Du Boulay.
An improved barrow for use by builders and contractors, and also for general purposes.	2659	14th Oct. 1865	Robert Stephens.
Improvements in common road carriages and in breaks for the same.	2687	18th Oct. 1865	James Rock the younger.
Apparatus for raising and lowering the windows of railway and other carriages and other windows.	2816	1st Nov. 1865	John Kay Farnworth.
An improved truck or barrow for wheeling and tipping coke, coal or other substances.	2848	4th Nov. 1865	William Brett.
Formation of railway carriages - - -	2858	6th Nov. 1865	Reuben Sims. Robert Burns.
Railway steam-engines and carriages - -	2928	14th Nov. 1865	Joseph Alphonse Loubat.
Gun carriages - - - - -	2976	20th Nov. 1865	Thomas Bridges Heathorn. Joseph Henry George Wells.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.
Carriages and endless tracks on and with which they run.	3100	2nd Dec. 1865	Adolphe Nicole.
Hoods, aprons and dashes of carriages and other vehicles.	3150	7th Dec. 1865	George Fitzjames Russell.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.
Construction and arrangement of railway carriages, for the purpose of obviating or diminishing the bad consequences of collisions of or accidents to railway trains - - - -	3244	14th Dec. 1865	Henry Negretti. Joseph Warren Zambra.
A new or improved method of and apparatus or machinery for applying water or other fluid as a motive-power - - - - (*constructing a carriage.*)	3328	23rd Dec. 1865	Edmund Dwyer. Henry Moon.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*ropes for drays, carts, carriage trimmings, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
See also "AXLES." *See also* "BREAKS." *See also* "WHEELS FOR CARRIAGES." For ventilating carriages, *see* "VENTILATION." For warming carriages, *see* "HEATING." For lighting carriages, *see* "LAMPS."			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARTRIDGES AND CASES; GUN WADS.			
Improvements in fire-arms and in ammunition for the same.	188	21st Jan. 1865	Jacob Snider, jun^{r}.
Breech-loading fire-arms and cartridges - - (*Communicated by Charles Claude Etienne Minié.*)	253	28th Jan. 1865	William Clark.
An improvement in cartridge boxes for breech-loading fire-arms.	254	28th Jan. 1865	Erastus Blakeslee.
Certain improvements in revolving fire-arms and cartridges for the same.	309	4th Feb. 1865	Stephen Wells Wood.
An improvement in the manufacture of patched balls for fire-arms.	367	9th Feb. 1865	Milo Peck.
Improvements in breech-loading fire-arms and in cartridges for breech-loading fire-arms.	421	14th Feb. 1865	Johann Von der Poppenburg.
Cartridges - - - - - - (*Communicated by Charles Edward Snider.*)	426	14th Feb. 1865	Benjamin Thompson.
An improvement in cartridges for breech-loading guns.	518	24th Feb. 1865	Charles William Lancaster.
Improvements in breech-loading fire-arms and in cartridges for breech-loading fire-arms. (*Partly communicated by William Montgomery Storm.*)	708	14th March 1865	Francis Augustus Braendlin.
Improvements in the construction of fire-arms and in cartridges for the same.	800	22nd March 1865	Alfred Pierre Tronchon.
An improvement in the construction of cartridge and other boxes. (*Communicated by Robert Augustus Chesebrough.*)	902	30th March 1865	Alfred Vincent Newton.
Projectiles and cartridges for central fire breech-loading fire-arms and ordnance.	932	3rd April 1865	Johann von der Poppenburg.
Improvements in fire-arms, and in cartridges to be used therewith and with other fire-arms.	1046	12th April 1865	Thomas Jefferson Mayall.
An improved apparatus for charging and closing cartridge cases. (*Communicated by Thomas James Thackeray.*)	1182	27th April 1865	Richard Archibald Brooman.
Improvements in boring or excavating and blasting rocks and minerals, and in the treatment of the tools employed therein.	1192	28th April 1865	Julian Bernard.
Breech-loading fire-arms and cartridges - -	1289	9th May 1865	John Charles Conybeare.
Manufacture of gun-cotton cartridges for cannon and small arms.	1300	10th May 1865	Julian John Révy.
Improvements in breech-loading fire-arms, and in cartridges for breech-loading fire-arms.	1308	11th May 1865	Joseph Rock Cooper.
Apparatus to be used with breech-loading fire-arms and ordnance.	1355	16th May 1865	Pierre Camille Lafont.
Improvements in breech-loading fire-arms, and in cartridges and bayonets for breech-loading fire-arms. (*Communicated by Charles Rochaz.*)	1356	16th May 1865	Richard Archibald Brooman.
Improvements in breech-loading fire-arms and ordnance, and in cartridges for breech-loading fire-arms.	1436	25th May 1865	Thomas Wilson.
An improved method of loading and turning over the shells of cartridges, and in the machine used for the same.	1463	27th May 1865	George Gibson Bussey.
Improvements in breech-loading fire-arms and in metallic cartridge cases for the same. (*Communicated by James Ingersoll Day.*)	1546	6th June 1865	George Haseltine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CARTRIDGES, &c.—*continued.*			
Improvements in breech-loading fire-arms and in cartridges to be used therewith. (*Communicated by Pierre Didier Jardinier.*)	1750	1st July 1865	William Edward Newton.
Improvements in portable charge holders for breech-loading guns, whether single or double barrelled, as also in the means of manufacturing the said holders and in exploding the charge.	1888	20th July 1865	Charles Rosson.
Improvements in fire-arms and in cartridges for the same.	1889	20th July 1865	William Tranter.
Improvements in breech-loading fire-arms and in the charges and projectiles to be used therewith.	1894	20th July 1865	William La Penotière.
Construction of needle cartridges - -	1908	21st July 1865	James Warren Roberton.
Improvements in breech-loading fire-arms and in revolving fire-arms, and in cartridges.	2030	4th Aug. 1865	Thomas William Webley.
Improvements in revolving fire-arms, in projectiles and cartridges.	2108	15th Aug. 1865	James Broun.
Breech-loading fire-arms and cartridges - -	2345	13th Sept. 1865	Frederic Waller Prince.
Improvements in breech-loading fire-arms and in cartridges to be used therewith. (*Communicated by Hiram Berdan.*)	2438	23rd Sept. 1865	William Edward Newton.
Cartridges - - - - - -	2475	27th Sept. 1865	James Broun.
Improvements in breech-loading guns and in projectiles and cartridges.	2512	30th Sept. 1865	Edward Lindner.
Cartridges for breech-loading fire-arms - -	2542	4th Oct. 1865	Joseph Jones. Frederick James Jones.
Cartridges for certain kinds of breech-loading fire-arms.	2628	12th Oct. 1865	Jasper Henry Selwyn.
Sabots for projectiles - - - -	2633	12th Oct. 1865	Henry Headly Williams.
Preparing the ammunition or charges for rifled ordnance and rifled fire-arms.	2856	4th Nov. 1865	Joseph Whitworth.
Cartridges - - - - - -	2906	11th Nov. 1865	John Millar.
Improvements in breech-loading guns, and in cartridges for breech-loading guns.	2981	20th Nov. 1865	Charles Witney.
Improvements in breech-loading fire-arms, and in cartridges for breech-loading fire-arms.	3178	9th Dec. 1865	Thomas Wilson.
Central fire breech-loading cartridges - -	3181	9th Dec. 1865	William Thomas Eley.
An improved blasting powder - - - (*for cartridges.*) (*Communicated by Bernhard August Schäffer and Christian Friedrich Budenberg.*)	3206	12th Dec. 1865	Arnold Budenberg.
Improvements in breech-loading fire-arms and in ammunition for the same.	3249	15th Dec. 1865	James Aston.
Breech-loading fire-arms and rotating breech cylinder pistols, and cartridges to be used therewith. (*Communicated by Silas Crispin.*)	3258	16th Dec. 1865	Alfred Vincent Newton.
Cartridges for breech-loading fire-arms - - (*Communicated by Caleb Huse.*)	3304	21st Dec. 1865	William Edward Newton.
Improvements in breech loading fire-arms, and in cartridges for breech loading fire-arms.	3337	26th Dec. 1865	Charles Reeves.
Improvements in breech loading fire-arms, and in cartridges for the same.	3348	27th Dec. 1865	William Castle Dodge.
Apparatus for closing charged cartridge cases -	3379	30th Dec. 1865	George Hawksley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASKS AND BARRELS; CASK-STANDS; BUNGS.			
Machinery or apparatus for forming certain parts of metallic casks and drums.	327	6th Feb. 1865	George Duncan.
Apparatus for lifting and tilting casks containing liquids.	446	16th Feb. 1865	Charles Octavius Stauntton.
Improvements in treating certain hydrocarbon oils and in vessels for containing the same. (*lining casks with glue and treacle.*)	564	28th Feb. 1865	John Fordred.
Improved arrangements and apparatus for drawing off liquors or liquids from casks and other vessels, without the aid of pumps.	761	18th March 1865	Joseph Walls.
Constructing gasometers, tanks, casks and similar vessels.	781	21st March 1865	Charles Hill Pennycook.
Casks or vessels for storing petroleum and hydrocarbons.	834	24th March 1865	John Bailey Brown.
Improved means of preventing the leakage of barrels, and of rendering packages and fabrics impervious to air and gases. (*Communicated by Lewis Francis and Cyrus Loutrel.*)	913	31st March 1865	Alfred Vincent Newton.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*for lining barrels.*) (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Machinery or apparatus for cutting cylindrical or conical articles. (*bungs.*)	1247	4th May 1865	George Redrup.
Stillages, stands or supports for barrels, casks or other similar vessels - - - -	1329	13th May 1865	Thomas Parkinson. William Snodgrass.
Apparatus for setting up casks or barrels - -	1764	4th July 1865	William Clapperton. Abram Lyle.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - - (*bungs.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
An improved portable chamber or receptable to contain aërated liquids, and the apparatus connected therewith by which the flow of such liquid is regulated and measured.	1923	25th July 1865	Max Benjamin Schumann.
An improved process for applying airproof solutions to the interior of casks and barrels. (*for holding volatile liquids.*) (*Communicated by Edward Delavan Woodruff.*)	1957	28th July 1865	William Edward Newton.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
An improvement in syphons - - - (*for casks, &c.*)	2168	23rd Aug. 1865	Lippmann Jacob Levisohn.
Apparatus for supplying carbonic acid gas to casks and other vessels from which beer, wine and other fermented liquors are drawn.	2187	25th Aug. 1865	Charles Adolphus Watkins.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASKS, &c.—*continued.*			
Vent pegs for casks or vessels from which beer or other liquid is drawn off from time to time.	2365	15th Sept. 1865	Robert Mann Lowne.
Machinery for making casks, barrels and other wooden vessels of capacity.	2426	22nd Sept. 1865	James Davidson.
Construction of casks to be used more especially for the transport of oil.	2500	29th Sept. 1865	Johann Heinrich Pinckvoss.
An improved mode of treating or preparing casks and other vessels, to make them tight and suitable for containing hydrocarbon and other fluids.	2644	13th Oct. 1865	George Marshall.
Improved apparatus for facilitating the treating or preparing of casks and other vessels, to make them tight and suitable for containing hydrocarbon and other fluids.	3061	29th Nov. 1865	George Marshall.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for lining barrels, firkins, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
CASTING AND MOULDING METALS; MANUFACTURE OF CASTINGS.			
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	58	7th Jan. 1865	James Atkins.
A new or improved process or method of treating articles of cast iron and of cast iron mixed with other metals.	192	23rd Jan. 1865	Perceval Moses Parsons.
Improvements in the manufacture of ordnance and other like castings and in the apparatus employed therein, also in carriages or moulds for the same. (*Communicated by William Jones.*)	295	2nd Feb. 1865	John Henry Johnson.
An improved mode of making metal pipes - -	358	8th Feb. 1865	William Anderson.
An improved "core" to be employed in the casting of metallic pipes or tubes.	587	2nd March 1865	David Hartley.
Casting steel railway-wheel tyres - - -	614	4th March 1865	Joseph Whitley.
Manufacture of crucibles and pots in which metals or other substances may be melted.	630	6th March 1865	George Nimmo.
Improvements in the manufacture of railway-wheel tyres, and in the implements or tools employed in such manufacture.	665	9th March 1865	William Daniel Allen.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	699	13th March 1865	James Atkins.
Casting ingots of steel and malleable iron - -	861	27th March 1865	Carl Johan Laurentz Leffler.
Manufacture of steel tires for railway wheels -	878	28th March 1865	Francis William Webb.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING METALS, &c.—*continued.*			
Machinery or apparatus for cutting scrolls, frets and filigree work.	926	1st April 1865	James Kennan.
Manufacture of ploughshares, socks, or points for ploughs, cultivators or scurrifurrows and other implements used in the cultivation of the land where these points are used or required - -	996	7th April 1865	William Gray. Edward Gray. John Gray.
Manufacture of malleable iron sheaves and bushes for pulley blocks - - - - - -	1085	19th April 1865	Joseph Gardner. Richard Lee. George Henry Wain. Samuel Hargrove. Charles Hargrove. Samuel Hargrove, jun^{r}.
Casting and working so-called "Bessemer steel ingots" - - - - - - - -	1100	20th April 1865	Thomas Hampton. James Abbott.
Machinery for moulding and making cores for moulding or casting metals.	1122	21st April 1865	Richard Canham.
Making moulds for casting pipes and other articles of various sizes.	1206	1st May 1865	David Yoolow Stewart.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metals.	1208	1st May 1865	Henry Bessemer.
Certain improvements in the manufacture of "moulds" for metallic castings having a cylindrical form.	1295	10th May 1865	David Hartley.
Improvements in casting iron girders and in apparatus therefor.	1304	11th May 1865	James Goodwin.
Improvements in the manufacture of crossings for the permanent way of railways, and also in tyres for wheels.	1398	20th May 1865	Joseph Armstrong.
Apparatus for making cores and moulds for casting - - - - - - -	1429	25th May 1865	David Law. James Bennet.
A new and improved mode of making and venting cores and parts of moulds to be used in the casting of iron or other metal. (*Communicated by Joseph Harrison, junior.*)	1434	25th May 1865	John Henry Johnson.
An improved method of and apparatus for moulding wheels.	1488	30th May 1865	Luke Martin.
Foundry cupolas - - - - - -	1498	31st May 1865	Thomas Summerson.
An improved system of wheels for railway carriages	1663	20th June 1865	Emile Dupont.
Manufacturing gun barrels and tubes of cast steel and homogeneous iron.	1738	30th June 1865	Henry Powell Tipper.
An improvement or improvements in the manufacture of the handles of smoothing irons or sad irons, which said improvement or improvements may also be applied to the manufacture of the handles of various other articles. (*moulding.*)	1798	7th July 1865	Thomas Sheldon.
Manufacture of cast steel - - - - (*Communicated by Charles Pauvert.*)	1813	8th July 1865	Richard Archibald Brooman.
An improved process for obtaining oxygen - - (*used in preparing moulds for casting.*) (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Apparatus employed in the manufacture of tin and terne plates - - - - - -	1843	12th July 1865	John Saunders. Joseph Piper.
Improvements in ingot moulds and in casting metals.	1849	14th July 1865	John Clayton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING METALS, &c.—*continued.*			
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings.	1885	19th July 1865	George Nimmo.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein.	1975	31st July 1865	John Ramsbottom.
Burglar proof safes - - - - - -	2006	2nd Aug. 1865	Herbert Allman.
Railway chairs - - - - - -	2099	14th Aug. 1865	William Frederick Henson.
Moulds for casting metallic pipes, retorts and other articles.	2215	29th Aug. 1865	George Robinson.
Manufacture of cast steel or other metallic tubes -	2241	31st Aug. 1865	William Henry Brown.
Improvements in the manufacture of metallic safes and strong rooms, and in apparatus connected therewith.	2265	2nd Sept. 1865	Samuel Chatwood.
Improvements in founding or casting metals, and in moulds used for the same.	2401	20th Sept. 1865	Daniel Spink.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, junior, and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Apparatus for raising liquids - - - -	2632	12th Oct. 1865	Jean Ursin Bastier.
Apparatus for moulding toothed or other wheels or pullies or portions of circles, for casting.	2751	25th Oct. 1865	George Lamb Scott.
Certain improvements in apparatus employed in the manufacture and production of metallic pipes, tubes or other similar hollow castings. (*moulds and cores.*) (*Communicated by Alfred Bertsch.*)	2804	31st Oct. 1865	Arthur Dealandes.
Casting hoops of steel suitable for making tyres -	2886	8th Nov. 1865	William Daniel Allen.
Stoves for drying moulds - - - - -	2943	15th Nov. 1865	Henry Cochrane.
Machinery for the manufacture of moulds for casting metallic wheels.	2959	17th Nov. 1865	Thomas Joseph Perry.
An improvement in the manufacture of steel castings. - - - - - - - -	2970	18th Nov. 1865	George Taylor. John Fernie.
Cotton gins - - - - - - -	2984	20th Nov. 1865	William James Burgess.
Improvements in casting iron and steel and in apparatus employed for this purpose.	3018	24th Nov. 1865	Joseph Whitworth.
Moulding for casting steel, iron and other metals -	3030	25th Nov. 1865	Frederick Trachsel. William Hall.
Improvements in the manufacture of safes and in apparatus connected therewith.	3321	23rd Dec. 1865	Samuel Chatwood.
Improvements in the construction and manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles.	3332	23rd Dec. 1865	Francis William Webb.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING AND MOULDING PLASTIC MATERIALS; MANUFACTURE OF MOULDED ARTICLES; PLASTIC COMPOSITIONS; MOULDING FUEL.			
Improvements in the treatment of carbonaceous minerals and in apparatus for preparing agglomerated fuel.	40	6th Jan. 1865	Joseph Emile Vigouléte.
Photo-sculpture and apparatus to be employed therein.	218	26th Jan. 1865	David Gay.
Machinery for compressing coal dust and other materials fit for burning, also clay into bricks, tiles, pipes and other like articles.	220	26th Jan. 1865	William Smith.
An improvement in the manufacture of artificial stone for building and other purposes.	441	16th Feb. 1865	William Kirrage.
Manufacture of crucibles and pots in which metals or other substances may be melted.	630	6th March 1865	George Nimmo.
Manufacture of jewelry cases and other similar cases.	803	22nd March 1865	John James Carter.
Process of preparing kaolin or china clay and other clays, for potters' use, and for expelling water from other earthy deposits. (*Communicated by Joseph Muir.*)	805	22nd March 1865	James Wright.
Construction of walls, houses and other buildings - (*moulding cornices.*)	822	23rd March 1865	Joseph Tall.
Manufacture and application of glass and other vitreous compositions - - - - -	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
Manufacture of slabs, bearers and other articles of artificial stone where great strength is required.	1337	13th May 1865	Frederick Ransome.
Superceding the unsightly chimney pots now in use.	1400	22nd May 1865	Robert Haswell.
Manufacture of artificial fuel applicable chiefly to the kindling of fires.	1438	25th May 1865	Henry Gibbs.
Improvements in ornamenting japanned surfaces and in machinery or apparatus for that purpose. (*moulding the rollers.*)	1454	27th May 1865	Leonard Brierley.
Method of constructing partitions, walls, floors and roofs of buildings.	1598	13th June 1865	John James Bodmer.
A new or improved artificial fuel - - -	1600	13th June 1865	Charles James Collins.
Improved machinery for compressing and solidifying coal and other analagous substances.	1606	14th June 1865	Henry George Fairburn.
New or improved compositions in imitation of ivory and woods, to be employed in the manufacture of umbrella tips, umbrella and walking stick handles and other useful and ornamental purposes - - - - - - -	1682	23rd June 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Clay tobacco pipes - - - - - -	1683	23rd June 1865	Lesley White.
An improved composition for the manufacture of printers' rollers.	1694	24th June 1865	Frederic Germain David.
An improved pulping and compressing machine for the treatment of peat as a fuel, and gas for illuminating purposes - - - -	1703	26th June 1865	Charles Worssam. George Evans.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING PLASTIC, &c.—*continued.*			
An improved mode of combining and forming small coal or coal dust into lumps, blocks or otherwise, to be employed for the purposes of fuel.	1716	28th June 1865	Henry George Fairburn.
Improvements in the manufacture of gas retorts and other articles made of fire-clay, and in furnaces for burning the same and for other purposes.	1737	30th June 1865	William Schofield.
An improved mode of pressing and moulding clay, sand or cement, for making bricks and for other purposes. (*Communicated by John Steele.*)	1748	1st July 1865	William Robert Lake.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - -	1775	5th July 1865	John Longbottom. Abram Longbottom.
Manufacture of bricks and blocks for building and other purposes - - - - - -	2068	9th Aug. 1865	James William Sumner. Clement Augustus Scott.
Manufacture of terra-cotta or vitreous stone - -	2071	10th Aug. 1865	Mark Henry Blanchard.
Machinery for moulding hollow articles, in earth, clay and other like materials.	2084	11th Aug. 1865	Robert Williams Armstrong.
Manufacture of the straw of rye and other straws and grasses into fibre, and utilising the refuse. (*pulp for moulding.*)	2171	23rd Aug. 1865	Edward Henry Cradock Monckton.
Method of and apparatus for treating peat and other plastic materials - - - - -	2219	29th Aug. 1865	Hull Terrell. Thomas Don.
An improved method of ornamenting the surfaces of tiles.	2378	18th Sept. 1865	Henry Venables.
Improvements in moulding crucibles and other hollow articles of plastic materials, and in apparatus employed therein. (*Communicated by Samuel Maynard.*)	2464	26th Sept. 1865	Richard Archibald Brooman.
Machinery for tempering and preparing peat for fuel. (*Communicated by Nathaniel Frothingham Potter.*)	2469	26th Sept. 1865	George Tomlinson Bousfield.
Improvements in submarine electric telegraph cables and in apparatus connected therewith. (*moulding gutta percha for cables.*)	2605	10th Oct. 1865	François Thierry Hubert.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same.	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improved preparation or composition for coating, covering or coloring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses.	2638	12th Oct. 1865	William Barwick.
Purification and preparation of animal and vegetable wax, stearine, spermaceti, paraffine and other solid, waxy or fatty substances.	2768	27th Oct. 1865	Scipion Sequelin.
Manufacture of embossed wood - - - (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
Improvements in the manufacture of air-tight coffins and in the mode of ornamenting or finishing the same, as also in the application of a material or composition not hitherto used in their production - - - - - (*paper pulp moulded.*)	3014	24th Nov. 1865	Henry John Cox. William Loach.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CASTING PLASTIC, &c.—*continued.*			
An improved system of pavement to supersede the macadamized system used in the main streets of large cities and causeways subject to a great circulation of vehicles. (*making moulded flagstones.*)	3035	25th Nov. 1865	Theophilus Berrens.
Dyeing, printing and other operations based on chemical reactions. (*preventing cracks in works of plaster.*) (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - -	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
Improvements in preparing compounds of xylodine or gun cotton, and in the apparatus employed.	3163	8th Dec. 1865	Alexander Parkes.
Improved machinery for compressing and solidifying coal, clay and other analogous substances.	3242	14th Dec. 1865	Henry George Fairburn.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for moulding or copying models.*) (*Communicated by Henry Wurts.*	3325	23rd Dec. 1865	William Edward Newton.
See also "BOTTLES." *See also* "BRICKS." *See also* "EARTHENWARE." For moulding sugar, *see* "SUGAR."			
CEMENT AND PLASTER.			
An improvement in the construction of mills for grinding and pulverizing grain and other substances. (*cement.*)	211	25th Jan. 1865	Anthony Stevenson.
Improvements in mortar mills, applicable also to grinding other substances.	252	28th Jan. 1865	John Raines.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*substitute for cement.*)	864	27th March 1865	Ferdinand Le Roy.
Certain improvements in the manufacture of lime - (*Communicated by Monsieur Louis Poulet.*)	1467	29th May 1865	Peter Armand Le Comte De Fontaine Moreau.
A new or improved self-acting apparatus for distributing the feeding materials in high furnaces. (*such as limestone.*) (*Communicated by Emile Langen.*)	1733	29th June 1865	Alexander Prince.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CEMENT, &c.—*continued.*			
A new composition suitable for use as paint and protective coating. (*Communicated by William Potter.*)	2163	22nd Aug. 1865	John Gilbert Avery.
Manufacture of cement - - - - -	2505	29th Sept. 1865	Joseph Duke.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same.	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improved preparation or composition for coating, covering or coloring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses.	2638	12th Oct. 1865	William Barwick.
Constructing and mounting or hanging millstones	2692	18th Oct. 1865	William Henry Parker.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold.	2853	4th Nov. 1865	James Thys.
A new and improved cement - - - - -	2863	7th Nov. 1865	Thomas Grason. James O'Donoghue.
An improved composition for enamel, paint, varnish, cement or plaster. (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
Dyeing, printing and other operations based on chemical reactions. (*making plaster, cement, &c.*) (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Apparatus employed in grinding corn and other substances capable of being gound by millstones. (*cement.*)	3126	5th Dec. 1865	Edward Alfred Cowper.
CEMENTED AND FLOCKED FABRICS; ADHERING ORNAMENTS AND DEPOSITING METAL ON FABRICS.			
Vulcanizing compounds and vulcanized fabrics - (*coating fabrics with flock.*) (*Communicated by Simon Stevens.*)	176	20th Jan. 1865	Benjamin Franklin Stevens.
Manufacture of flock fabrics - - - (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
An improved manufacture of waterproof fabric - (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
Improvements in the manufacture of hose and other flexible tubing, which improvements are also applicable in uniting surfaces of india-rubber, gutta percha or of compounds thereof, to each other, or to woven or other fabric or material for other purposes.	1309	11th May 1865	Thomas Jefferson Mayall.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CEMENTED FABRICS, &c.—*continued.*			
Ornamentation of fabrics and leather - - - (*cementing artificial flowers, &c.*) (*Communicated by Miss Nathalie Kolb.*)	1389	19th May 1865	William Clark.
Apparatus for the manufacture of impressed gold and similar paper hangings - - -	1399	22nd May 1865	John Wylie. James Rew.
Manufacture of carpets and other terry and cut pile fabrics. (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Certain new and useful improvements in the construction of hats. (*Communicated by Elias Rosenswig.*)	1971	31st July 1865	Thomas Drew Stetson.
Manufacture and ornamenting of carpets, rugs and other fabrics. (*cementing or sewing on designs.*)	2181	25th Aug. 1865	Lemuel Clayton.
Ornamentation of fringes and trimmings - -	2280	5th Sept. 1865	Thomas Bird Bailey.
Improvements in the manufacture of trimmings and in the machinery employed therein.	3320	23rd Dec. 1865	William Smith.
Improvements in floor cloths and similar composition fabrics, in the manufacture of such fabrics, and in machinery employed therein - - -	3370	29th Dec. 1865	John Howard Kidd. James Chadwick Mather.
CHAINS; CHAIN CABLES; HOOKS, HOOPS, RINGS.			
Mode of making or forming the links of iron or steel chains, chain cables, shackles, couplings or parts of the same, and for machinery to be used therein.	422	14th Feb. 1865	George Homfray.
Improvements in cast steel or other metal chains for cables and for other purposes, and in machinery or apparatus for manufacturing the same.	431	15th Feb. 1865	William Henry Brown.
Manufacture of chain cables - - -	524	24th Feb. 1865	John Shortridge.
Certain improvements in the method of securing the extremities of bands or hoops used in packing bales, and in the means employed for such purpose. (*Communicated by Edward Taylor Bellhouse.*)	663	9th March 1865	William John Dorning.
Manufacture of ornamental metallic chains -	843	25th March 1865	Edwin Wolverson.
Manufacture of cornice pole and other rings - -	977	6th April 1865	Charles Horton Williams.
Mode of making or forming the links of iron or steel chains and chain cables, and for machinery to be used therein.	1004	8th April 1865	Alfred Homfray.
An improved chain or iron-cable shackle - -	1036	11th April 1865	Robert Turner.
Shackles or links for connecting chain cables and other chains.	1250	4th May 1865	William Roberts.
Machines for testing the strength of chains and cables and for other like purposes.	1347	15th May 1865	James Tangye.
Machinery employed in the manufacture of hoops and tyres.	1425	25th May 1865	John Ramsbottom.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CHAINS, &c.—*continued.*			
A new or improved apparatus for the purpose of stopping and easing strains on ships' cables when in use.	1608	14th June 1865	Charles de Vendeuvre.
Manufacture of chains, bracelets, necklaces and other articles of jewelry.	1794	7th July 1865	Pierre Mathurin Charles Béziel.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein.	1975	31st July 1865	John Ramsbottom.
Manufacture of swivels - - - -	2334	12th Sept. 1865	Joseph Welch.
Manufacture of chains, bracelets, necklaces and other analogous articles.	2497	28th Sept. 1865	Carlo Giuliano.
Apparatus for raising liquids - - - (*chains for pumps.*)	2632	12th Oct. 1865	Jean Ursin Bastier.
Casting hoops of steel suitable for making tyres -	2886	8th Nov. 1865	William Daniel Allen.
Manufacture of gold and other ornamental chains -	3076	30th Nov. 1865	John Hollands. Edward Richard Hollands. Thomas Hollands.
A new or improved swivel snap - - - (*for harness chains.*)	3096	2nd Dec. 1865	Emile Morin. Roman Schweizer.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other material. (*smoothing chains.*)	3243	14th Dec. 1865	William Robinson.
CHARCOAL, COKE, CARBON, MOULDERS' BLACKING, LAMP-BLACK.			
Apparatus for charging and drawing gas retorts and for other purposes - - - -	142	17th Jan. 1865	Sealy James Best. James John Holden.
An improvement in the construction of mills for grinding and pulverising grain and other substances. (*charcoal.*)	211	25th Jan. 1865	Anthony Stevenson.
Process and apparatus for producing oil and coke from coal and slack.	500	22nd Feb. 1865	James Nicholas.
Apparatus for cooling animal and other charcoal -	730	15th March 1865	John Frederick Brinjes.
Apparatus for the distillation of coal and peat, and such other substances as are or may be used for the manufacture of solid and liquid volatile hydrocarbons, or for the manufacture of the said hydrocarbons and coke.	796	22nd March 1865	William Mattieu Williams.
Apparatus employed in the reburning of animal charcoal.	1198	29th April 1865	Thomas White.
Manufacture and reburning or revivification of animal charcoal.	1336	13th May 1865	George Henry Ogston.
Preparation of materials to be used as substitutes for animal charcoal - - - -	1409	22nd May 1865	Richard Müller. Arthur Thomas Weld. John Folliott Powell.
Ovens or kilns for the manufacture of coke - -	1435	25th May 1865	John Gjers.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CHARCOAL, &c.—*continued.*			
Manufacture of artificial fuel - - -	1547	6th June 1865	David Barker.
A new material to be used in the purification of heating and lighting gases.	1591	12th June 1865	John Thomas.
Means or method of applying mineral oils for generating steam and heat. (*substitute for coke.*) (*Partly communicated by Alexandre Szpis.*)	1928	25th July 1865	Wladislaus Zbyszewski.
Improvements in coke ovens and in the manufacture of coke.	2013	3rd Aug. 1865	William Morgans.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products from wood. (*obtaining charcoal.*) (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
Manufacture of materials for decoloring sugar and other saccharine and liquid matters. (*Communicated by Chrétien Jean Gaade.*)	2409	21st Sept. 1865	William Clark.
Improvements in coke and charcoal ovens and in the manufacture of coke, parts of which are applicable to bread, biscuit and pastry ovens.	2477	27th Sept 1865	William Morgans.
Means and apparatus to be employed in the manufacture of sugar. (*Partly communicated by Absalom Hippolyte Leplay.*)	2606	10th Oct. 1865	Jean Adolphe Léon.
An improvement in treating animal charcoal -	2679	17th Oct. 1865	Edward Beanes.
Improvements in the distillation of coal and shale, and in the apparatus employed therein.	2793	30th Oct. 1865	Edward Meldrum.
An improved truck or barrow for wheeling and tipping coke, coal or other substances.	2848	4th Nov. 1865	William Brett.
An improved method of utilizing the waste heat of coke ovens. (*Communicated by Antoine Barbier-Perroton.*)	3048	28th Nov. 1865	William Edward Gedge.
Revivifying, deodorizing and calcining animal and vegetable charcoal and other matters.	3372	29th Dec. 1865	William Cormack.
CHEQUES AND BANKERS' BILLS.			
An improved preparation for the prevention of forgery of bank cheques, bills and other documents.	2101	14th Aug. 1865	John Gallemore Dale. Richard Samuel Dale.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee
CHLORINE AND CHLORIDES.			
An improved process for obtaining oxygen - - (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Treatment of hydrocarbon or paraffin oils - -	2008	3rd Aug. 1865	John William Perkins.
Manufacture of bichloride of carbon, and chloride of sulphur.	3253	15th Dec. 1865	Richard Ransford.
CHURNS; MAKING CHEESE AND BUTTER.			
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*driving churning apparatus.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Roberts Markham.
Certain improvements in churns - - - (*Communicated by Howard Tilden.*)	1292	10th May 1865	William Edward Broderick.
An improved apparatus for separating the whey from the curd in the manufacture of cheese.	1535	5th June 1865	Philip Coombes.
Treatment of condensing pans employed in the condensation of milk. (*Communicated by Samuel Percy.*)	1545	5th June 1865	Charles Howard Wansbrough.
A new or improved table or support to be employed in the dressing and finishing of cheeses.	1722	28th June 1865	William Percival.
Construction of washing-machines and churns -	2471	27th Sept. 1865	John Taylor.
An improvement in the process for making butter -	2936	15th Nov. 1865	Henry Clifton.
CISTERNS, RESERVOIRS, TANKS AND BUCKETS.			
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain or other analogous purposes. (*cleansing reservoirs.*)	174	20th Jan. 1865	Louis Balma.
Improvements in the means and apparatus employed for treating timber with antiseptic or preservative fluids, also applicable to other purposes. (*constructing tanks.*)	734	16th March 1865	Samuel Bagster Boulton.
Constructing gasometers, tanks, casks and similar vessels.	781	21st March 1865	Charles Hill Pennycook.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CISTERNS, &c.—*continued.*			
Apparatus for storing petroleum and other inflammable liquids of less specific gravity than water. (*Communicated by Felix Bizard and Pierre Labarre.*)	1027	11th April 1865	Richard Archibald Brooman.
Construction of reservoirs for containing and storing petroleum and other oils. (*Communicated by Paul Jacovenco.*)	1549	6th June 1865	Richard Archibald Brooman.
Apparatus for the decantation and raising of petroleum and other oils. (*reservoirs for storing.*)	1724	28th June 1865	Paul Jacovenco.
Fountains - - - - - - -	1823	10th July 1865	Frederick Taylor.
Construction or arrangement of sluices or dams -	1870	18th July 1865	Timothy Ward Wood.
A new or improved apparatus for supplying disinfecting liquids to waterclosets, urinals and other places requiring the same.	1879	19th July 1865	Charles Nicholas.
An improved portable chamber or receptacle to contain aërated liquids, and the apparatus connected therewith by which the flow of such liquid is regulated and measured.	1923	25th July 1865	Max Benjamin Schumann.
Applying and utilising water power - - (*storing water tanks.*)	1987	29th July 1865	Valentine Baker.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Tanks and other receptacles for obtaining and transporting petroleum, naphtha and other oils and liquids, to prevent wastage by fire or filtration or evaporation, or hazard of life.	2185	25th Aug. 1865	George Washington Howard.
Improvements in the construction of lids or covers for saucepans and other cooking utensils, part of which improvements is also applicable to the lids or covers of housemaids' pails.	2249	31st Aug. 1865	John Ward.
A new and improved machine for the collecting and diffusing of water or other fluids.	2419	22nd Sept. 1865	Charles Wyatt Orford.
Improvements in cisterns or chambers for the steeping of grain in the manufacture of malt, which improvements are also applicable to other chambers or enclosures.	2492	28th Sept. 1865	Charles Edmund Davis.
A certain composition having anti-corrosive and anti-fouling properties, for the preservation of and keeping clean the bottoms of iron vessels, and also for the preservation of iron submerged and iron structures exposed to the action of the atmosphere or water - - - - (*preserving water tanks.*)	2653	14th Oct. 1865	William Jardine Combe Mac Millan. James Mason. John Vickers Scarborough.
An improved apparatus for regulating the supply of water to tanks, water butts or cisterns, applicable also to other purposes - - -	2710	20th Oct. 1865	Richard Fell. Davy Hammond.
Improvements in supplying cattle with food and water on railways, and in the apparatus or means connected therewith.	2909	11th Nov. 1865	William Reid.
An improved trap or liquid sealing to the covers of cisterns, pans, jars, tubs and other vessels or chambers - - - - - -	2986	20th Nov. 1865	George Putland Hemming. Henry Coyle.

Subject-matter of Patent.	Number of Patent.	Date	Name of Patentee.
CISTERNS, &c.—*continued.*			
Construction of metal tanks and cisterns - -	3106	4th Dec. 1865	Frederick Braby. Alfred Moore.
Manufacture of tanks, baths, mangers and other vessels.	3129	5th Dec. 1865	Edward Headly.
Improvements in locomotive engines and in the means employed for generating steam therein. (*water bunkers.*)	3185	9th Dec. 1865	Robert Francis Fairlie.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for oilproofing tanks.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
CLOCKS, WATCHES AND OTHER TIME-KEEPERS; WATCH KEYS, CHAINS AND GUARDS.			
Construction of escapements for watches and other time-keepers.	53	6th Jan. 1865	George Reymond.
Construction of watches - - - - (*Communicated by Eugène Deroche.*)	157	19th Jan. 1865	Charles Denton Abel.
Certain improvements in the manufacture of pencil cases. (*combined with watch keys.*)	298	3rd Feb. 1865	William Vale.
Application to clocks and alarms of a circular escapement in place of the ordinary balance wheel. (*Communicated by Joseph Génévrier.*)	462	18th Feb. 1865	Pierre Eugène Bidaux.
Keyless watches - - - - - -	726	15th March 1865	Henry Chevob.
Differential wheel gearing - - - (*for clock work.*)	744	17th March 1865	John Standfield.
Manufacture of ornamental metallic chains -	843	25th March 1865	Edwin Wolverson.
Photographic cameras - - - - -	1009	8th April 1865	Victor Albert Prout.
An improved method of forming tapered rods and bits. (*for clock work.*) (*Communicated by Cesar Auguste Deverte.*)	1018	10th April 1865	Richard Archibald Brooman.
Watches - - - - - -	1033	11th April 1865	Lawrence Barnett Phillips.
Means and apparatus for regulating the power and velocity of machinery or apparatus in motion. (*registering time.*)	1230	2nd May 1865	Charles William Siemens.
Clocks and time-pieces - - - - -	1415	23rd May 1865	Herman Adler.
Construction of keyless watches - -	1470	29th May 1865	Henri Son.
Electro-magnetic clocks and other time-keepers - (*Communicated by Jean Theodore Scholte.*)	1518	2nd June 1865	Richard Archibald Brooman.
Watches and other time-keepers - - - (*Communicated by Felix Benoni Bouscatié.*)	1630	16th June 1865	Richard Archibald Brooman.
Regulating or controlling the power employed in actuating sewing and other machines of a light nature. (*watchmakers' lathes.*)	1835	11th July 1865	Benjamin Fothergill.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CLOCKS, &c.—*continued.*			
An improved method of winding up watches and other time-keepers. (*Communicated by Robert Theurer, senior, and Robert Theurer, junior.*)	2274	4th Sept. 1865	Richard Archibald Brooman.
Improvements in watches, and in the method of and apparatus for winding up fusee watches and pocket chronometers, and setting the hands, without a key.	2330	11th Sept. 1865	David Keys.
Manufacture of swivels - - - - -	2334	12th Sept. 1865	Joseph Welch.
Apparatus for lighting and heating, suitable for sick rooms and nurseries, and applicable also as holders for matches, watches and other necessary articles. (*Communicated by François René Menand and Charles Louis Marie Menand.*)	2515	30th Sept. 1865	John Henry Johnson.
Manufacture of scent and smelling bottles - (*containing watch dial and movements.*)	2599	9th Oct. 1865	Thomas Miles.
Means of renewing the teeth of worn out files - (*used in watch making.*)	2887	8th Nov. 1865	Joseph Bernard Oscar Lassus.
An improved metronome or apparatus for measuring intervals of time. (*See "MUSICAL INSTRUMENTS."*)	2899	11th Nov. 1865	Henry Carnegie Carden.
Improved mechanism for winding keyless watches -	3230	14th Dec. 1865	August Guye.
Obtaining motive-power applicable to various useful purposes. (*electric clocks.*)	3260	16th Dec. 1865	Cecil Loftus Wellesley Reade.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for clock lines.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
COATING, COVERING, PLATING, SHEATHING.			
I.—Coating, Plating, Lining and Facing Metallic Surfaces with Metals or other Substances.			
Improvements in lining the sides and bottoms of puddling furnaces and other furnaces employed in the manufacture of iron or steel, and in mending, repairing and fettling the sides and bottoms of the said puddling and other said furnaces.	224	26th Jan. 1865	Robert Mushet.
Improvements in rail and tramways, in laying electric telegraph wires, and in compositions for insulating the same. (*Communicated by Jean Arnaud Emile Laloubère.*)	269	31st Jan. 1865	Richard Archibald Brooman.
A new or improved method or process and apparatus for obtaining the concentrated extract of hops, and for preserving the same from deterioration. (*lining the vacuum pans with stearine.*) (*Communicated by George Percy, Walter Wells, Charles Brown, John Mulford and John Maximilian Webb.*)	306	4th Feb. 1865	Joseph Rideal Webb.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
A new or improved insulating material for telegraphic and other purposes, together with an improvement in protecting telegraph wires, especially applicable to submarine and subterrancan telegraphs. (*Communicated by Jules Erckmann.*)	362	9th Feb. 1865	William Alfred Marshall.
Treating products obtained when coating iron with zinc.	469	18th Feb. 1865	James Graham.
Musical instruments in the nature of organs in which reeds are employed. (*lining the pipes.*)	579	1st March 1865	Augustine Thomas Godfrey.
Improvements in covered steel for crinoline skirts, and in the machinery for covering and uniting the same. (*Communicated by Oliver Rogers Burnham.*)	588	2nd March 1865	William Sparks Thomson.
An improved means of securing and protecting the india-rubber rings of buffer springs of railway carriages, which invention is also applicable to air pump and valve seatings, and lids faced with india-rubber.	626	6th March 1865	William John Oliver.
Rolls for connecting sheets of zinc and other metals employed for covering roofs and other enclosures.	662	9th March 1865	Rowland George Fisher.
Locks for safes, strong rooms and other purposes -	778	20th March 1865	Samuel Chatwood.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating boilers, cylinders, pipes, &c.*)	864	27th March 1865	Ferdinand Le Roy.
An improvement in paints or compositions used for coating iron or wooden vessels, and other structures exposed to the action of sea water.	871	28th March 1865	John Cornelius Craigie Halkett.
Certain improvements in machinery or apparatus used in carding cotton or other fibrous substances	887	29th March 1865	Evan Leigh. Frederick Allen Leigh.
Improvements in the construction of submarine telegraph cables, and in the mode of submerging or laying them in the water. (*Communicated by Jean Lucien Arman.*)	1031	11th April 1865	William Edward Newton.
Manufacture of tin and terne plates - -	1081	18th April 1865.	John Jones Jenkins.
Paints or compositions for coating and preserving metallic and other substances from oxidation and decay - - - - - -	1154	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
An improved composition for coating iron or other vessels, and for other similar purposes.	1278	9th May 1865	John Cornelius Craigie Halkett.
Manufacture of parkesine or compounds of pyroxyline, and also solutions of pyroxyline known as collodion. (*for coating wire.*)	1313	11th May 1865	Alexander Parkes.
Certain improvements in the formation and construction of metallic vessels, chambers or hollow cylinders used in hydraulic apparatus, cannon or heavy guns, and for like purposes.	1505	1st June 1865	Herbert Allman.
Improved sanitary apparatus or arrangements for preventing noxious exhalations such as arise when coating or treating iron or other articles -	1690	24th June 1865	Matthew Andrew Muir. James M'Ilwham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*coating iron surfaces.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Improvements in the manufacture of certain kinds of metallic tubes and rods, and in ornamenting metallic tubes and rods.	1749	1st July 1865	James Atkins.
Apparatus employed in the manufacture of tin and terne plates - - - - - -	1843	12th July 1865	John Saunders. Joseph Piper.
Protecting crinoline steel, stay busks, springs for leggings or gaiters and other similar fastenings.	1883	19th July 1865	William Edwards.
Manufacture of pots and crucibles wherein metals and other materials may be heated or melted.	1884	19th July 1865	George Nimmo.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mulholland.
Construction of submarine telegraph cables - -	2088	11th Aug. 1865	Henry Robert Guy.
Certain improvements in looms for weaving -	2091	12th Aug. 1865	William Bullough.
Improvements in the preparation or production of spongy metals, and in their applications. (*for lining steam generators.*) (*Communicated by François Drivet.*)	2106	15th Aug. 1865	John Henry Johnson.
Improvements in the construction of electric telegraph cables and in the preparation of telegraph wires.	2161	22nd Aug. 1865	Charles Marsden.
Improvements in constructing and insulating telegraphic conductors, and in apparatus connected therewith.	2332	12th Sept. 1865	John Macintosh.
Manufacturing wire conductors for electro-telegraphic purposes.	2416	22nd Sept. 1865	William Boggett.
Compositions used for coating metallic surfaces -	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Preparation of iron, steel and alloyed metals, for electro-plating.	2521	2nd Oct. 1865	Thomas Allan.
Coating iron and steel with gold, silver, platinum or copper.	2592	7th Oct. 1865	Jacob Baynes Thompson.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally and to the warming of buildings. (*Communicated by Joseph Harrison, junior, and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Improvements in the construction and working of electric telegraphs, and in apparatus connected therewith, partly applicable to other purposes. (*electro-deposition of metals.*)	2762	26th Oct. 1865	Henry Wilde.
Plating or combining gold, platinum and other metals or their alloys.	2842	3rd Nov. 1865	Edward John Northwood.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating boilers, &c.*)	2853	4th Nov. 1865	James Thys.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Making amalgams or alloys of metals - - (*coating metals with fused metals.*) (*Communicated by Henry Wurtz.*)	2903	11th Nov. 1865	William Edward Newton.
Improvements in the construction of and in the method of laying submarine electric cables. (*coating copper wire with gold.*)	2948	16th Nov. 1865	John De La Haye.
An improved composition for enamel, paint, varnish, cement or plaster. (*for coating metal.*) (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
A new or improved method of preventing the escape of heat from steam cylinders - - (*covering pistons with wood.*)	3051	28th Nov. 1865	William Simons. Andrew Brown.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*covering and lining mixing chambers.*) (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Construction of wire conductors for electro-telegraphic purposes.	3180	9th Dec. 1865	William Boggett.
Improvements in coating metals and in apparatus to be used for this purpose.	3183	9th Dec. 1865	Edmund Morewood.
Improvements in the manufacture of steel and purified iron, and in the apparatus employed therein. (*lining the furnace with clay plates.*) (*Communicated by Antoine Galy-Cazalat.*)	3300	21st Dec. 1865	Henri Adrien Bonneville.
Improvements in caps employed in spinning, and in the manufacture thereof. (*electro-bronzing.*)	3323	23rd Dec. 1865	Edward Clifton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for coating wire.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Manufacture of electric conductors insulated with india-rubber.	3347	27th Dec. 1865	Hugh Adams Silver.
Improvements in breech-loading fire-arms, and in cartridges for the same. (*coating metallic cartridge cases with tin.*)	3348	27th Dec. 1865	William Castle Dodge.
Construction of telegraphic cables or conductors -	3357	28th Dec. 1865	Cromwell Fleetwood Varley.
II.—Coating, Plating, Lining and Facing Glass, Wood, Stone, Plastic Materials, Textile Fabrics, &c.			
Coverings of telegraphic conductors and cables -	98	12th Jan. 1865	John Fuller.
Vulcanizing compounds and vulcanized fabrics - (*coating fabrics with flock.*) (*Communicated by Simon Stevens.*)	176	20th Jan. 1865	Benjamin Franklin Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Protecting wooden surfaces from the fouling and injury to which they are ordinarily liable in sea water.	363	9th Feb. 1865	John Cornelius Craigie Halkett.
Manufacture of mirrors - - - - (*Communicated by Louis Paul Angenard.*)	554	27th Feb. 1865	George Haseltine.
Improvements in treating certain hydrocarbon oils and in vessels for containing the same. (*lining casks with glue and treacle.*)	564	28th Feb. 1865	John Fordred.
Improvements in floor cloth and in machinery for the manufacture of floor cloth - - -	768	18th March 1865	John Howard Kidd. James Chadwick Mather.
Improvements in the manufacture of looking-glasses or mirrors, and in apparatus employed therein. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	786	21st March 1865	John Henry Johnson.
An improvement in paints or compositions used for coating iron or wooden vessels, and other structures exposed to the action of sea water.	871	28th March 1865	John Cornelius Craigie Halkett.
Improved means of preventing the leakage of barrels, and of rendering packages and fabrics impervious to air and gases. (*Communicated by Lewis Francis and Cyrus Loutrel.*)	913	31st March 1865	Alfred Vincent Newton.
Manufacture of flexible tubing or hose - - (*Communicated by David Knight Hoxsie and Thomas Lyons Reed.*)	959	4th April 1865	George Tomlinson Bousfield.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Protecting letters, numerals and ornamental designs on glass.	1111	21st April 1865	David Simson Buchanan.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - (*preparing the wood with a coating.*)	1117	21st April 1865	William Scarratt. William Dean.
Improvements in photographing upon wood, and in the preparation of wood, canvas, silk, glass and other substances, for the purpose of receiving and retaining impressions.	1174	26th April 1865	William Henry Smith.
Manufacture and application of glass and other vitreous compositions - - - - (*for lining articles.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
An improved composition to be employed in the manufacture of bonnets and hats. (*for coating or enamelling.*)	1442	25th May 1865	Jeffery Eustace.
Staining and graining woods - - -	1851	14th July 1865	John Morrough Murphy. James Morrough Murphy.
Flexible gas tubing - - - - - (*Communicated by Henry Raillon.*)	1861	15th July 1865	William Robert Lake.
Paints or preparations for coating surfaces - -	2015	3rd Aug. 1865	Ernest Leslie Ransome.
Looms for weaving - - - - - (*coating the picker spindles.*)	2073	10th Aug. 1865	John Ingham. Henry Ingham. James Broadley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
An improved method or process for ornamenting walls and other surfaces of buildings. (*covering with veneers.*) (*Communicated by Carl Friedrich Güntter.*)	2138	18th Aug. 1865	George Howard.
Submarine electric telegraph cables - -	2209	28th Aug. 1865	Stopford Thomas Jones.
Improvements in the manufacture of rope, cordage, yarn, wire rope, and other such like twisted and plaited fabrics, and in the machinery employed therein - - - - - (*covering telegraph cables.*)	2225	30th Aug. 1865	Thomas Cope. William Guest.
Improvements in covering submarine telegraph cables, and in the machinery and means employed for paying out or hauling in the same.	2326	11th Sept. 1865	Samuel Inkpen.
Improved means for rendering leather more durable and flexible - - - - - -	2357	15th Sept. 1865	Louis Gustave Sourzac. Louis Bombail.
Certain improvements in telegraphic cables - -	2509	30th Sept. 1865	James Austin Mee.
Construction of submarine telegraph cables - (*Communicated by Claude Ernest Lami de Nozan.*)	2530	3rd Oct. 1865	Henri Adrien Bonneville.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith. (*protective covering for gutta percha.*)	2605	10th Oct. 1865	François Thierry Hubert.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same.	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improved preparation or composition for coating, covering or coloring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses.	2638	12th Oct. 1865	William Barwick.
An improved mode of treating or preparing casks and other vessels, to make them tight and suitable for containing hydrocarbon and other fluids.	2644	13th Oct. 1865	George Marshall.
Improvements in the manufacture of bricks for building and other purposes, and in apparatus therefor. (*facing bricks.*)	2915	13th Nov. 1865	Edwin Guthrie.
An improved composition for enamel, paint, varnish, cement or plaster. (*for coating earthenware.*) (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
Improved apparatus for facilitating the treating or preparing of casks and other vessels, to make them tight and suitable for containing hydrocarbon and other fluids. (*coating with glue.*)	3061	29th Nov. 1865	George Marshall.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*for coating walls.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Waterproof linings of cases, boxes, and apparatus in which articles are desired to be packed waterproof.	3201	11th Dec. 1865	John Jonas.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for lining barrels, coating leather, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Improvements in floor cloths and similar composition fabrics, in the manufacture of such fabrics, and in machinery employed therein - -	3370	29th Dec. 1865	John Howard Kidd. James Chadwick Mather.
Coverings for floors - - - - - (*Communicated by Antoine Perrin and Achille Baudouin.*)	3384	30th Dec. 1865	John Henry Johnson.
III.—Coating, Sheathing and Facing Ships; Compositions for the Purpose.			
Coating the bottoms and sides of ships and other submerged structures, to prevent fouling and decay.	284	1st Feb. 1865	John Moysey.
Construction of armour-plated ships, forts and other like structures.	286	1st Feb. 1865	John Hughes.
Improvements in armour-plated ships, forts, gun carriages and works of defence, and in fastenings to be employed therein.	292	2nd Feb. 1865	Charles Lungley.
An improved varnish for preserving wood, and for protecting iron ships and other metal work from oxydation and from fouling. (*Communicated by Adolphe Gaibert.*)	315	4th Feb. 1865	Richard Archibald Brooman.
Protecting wooden surfaces from the fouling and injury to which they are ordinarily liable in sea water.	363	9th Feb. 1865	John Cornelius Craigie Halkett.
Construction of armour-plated ships - - (*Communicated by Charles Otis Holyoke.*)	438	15th Feb. 1865	George Tomlinson Bousfield.
Armour plates for vessels of war and for other similar purposes.	455	17th Feb. 1865	John Brown.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Improvements in coatings for the prevention of the fouling to which iron and other ships and structures are ordinarily liable in sea water.	624	6th March 1865	Francis Cruickshank.
Improvements in coating the bottoms of iron ships and other surfaces, to prevent oxidation, the adhesion of marine animals and plants, and in compositions to be therein employed.	681	10th March 1865	Richard Percy Roberts.
An improvement in paints or compositions used for coating iron or wooden vessels, and other structures exposed to the action of sea water.	871	28th March 1865	John Cornelius Craigie Halkett.
Protecting iron ships and other submerged structures from oxidation and corrosion.	970	5th April 1865	Edward Ritherdon.
An improved composition for preventing the fouling of ships and other vessels. (*Communicated by William Bolivar Davis.*)	1008	8th April 1865	George Davies.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
Improvements in the construction of ships of war and floating batteries, part of which improvements are applicable to land fortifications.	1107	20th April 1865	Henry Caudwell.
Securing or fastening wooden planking to iron frames in ships or vessels, and also to the outside of iron ships.	1162	25th April 1865	William Husband.
Improving and strengthening shields of steel, iron or other material, for ships, fortifications and other constructions.	1225	2nd May 1865	Thomas Hay Campbell.
An improved composition for coating iron or other vessels, and for other similar purposes.	1278	9th May 1865	John Cornelius Craigie Halkett.
Composition and manufacture of paints applicable to iron and other ships' bottoms, and for other general purposes.	1489	31st May 1865	Thomas Spencer.
Sheathing or coating the bottoms of ships or vessels.	1567	8th June 1865	Barnet Solomon Cohen.
Sheathing iron ships - - - -	1612	14th June 1865	William Robinson Mulley.
Preparation of paints - - - -	1807	7th July 1865	George Fentiman.
Constructing ships and vessels - - -	1817	8th July 1865	Christopher Oswald Papengouth.
An improved composition for coating ships' bottoms, and the surfaces of other vessels or structures which are exposed to the action of sea water - - - - - - -	1943	26th July 1865	Frederick Pulman. Richard Ginman.
An improved composition for coating the bottoms of iron and wooden ships, by which the same are preserved from fouling and the iron from corrosion, whether internally or externally, by sea or other water or moisture, which is applicable to iron of any kind exposed to the action of moisture.	1986	1st Aug. 1865	William La Penotière.
Iron knees and riders for ships' fastenings, and iron frames for wood and iron ships.	2010	3rd Aug. 1865	Peter Cato.
A new or improved composition for coating iron or wooden ships' bottoms.	2120	16th Aug. 1865	Samuel Parry.
Treating, working or manipulating cast steel for the manufacture of wheel tires, armour plates or other articles requiring great hardness and tensile strength.	2277	5th Sept. 1865	Julien Grand.
Improvements in cleansing and coating the bottoms of ships and other submerged surfaces, to prevent oxidation and the adhesion of marine animals and plants, also in compositions to be employed for these purposes.	2316	9th Sept. 1865	Richard Percy Roberts.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating hulls of ships.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
A certain composition having anti-corrosive and anti-fouling properties, for the preservation of and keeping clean the bottoms of iron vessels, and also for the preservation of iron submerged and iron structures exposed to the action of the atmosphere or water - - - -	2653	14th Oct. 1865	William Jardine Combe Mac Millan. James Mason. John Vickers Scarborough.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COATING, &c.—*continued.*			
An improved coating for covering the bottoms of iron and steel ships and other navigable vessels and marine works, to prevent oxidation and the adhesion of animal and vegetable matter thereto.	2791	30th Oct. 1865	Robert Doyne Dwyer.
An improved method of sheathing iron vessels -	2832	2nd Nov. 1865	Edwin Clark.
A new and improved cement - - - (*for lining iron vessels.*)	2863	7th Nov. 1865	Thomas Grason. James O'Donoghue.
Protecting the bottoms and sides of ships and other structures exposed to the action of sea water.	3000	22nd Nov. 1865	Cowper Phipps Coles.
Planking or sheathing iron ships and iron framed ships.	3012	23rd Nov. 1865	William Robinson Mulley.
Means of applying copper or alloys of copper to the bottoms and sides of navigable vessels built of iron, steel or homogeneous metal.	3339	26th Dec. 1865	William Francis Deane.
IV.—Covering Rollers.			
Improvements in wringing machines, parts of which are applicable to the construction of rollers. (*Communicated by Stephen Wing and Henry Holly.*)	922	1st April 1865	Henry Lewis.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding-engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Digging machinery - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
An improvement in the drawing and other rollers used in preparing and spinning cotton and other fibrous materials and textile manufactures. (*Communicated by Amos Ashum Taylor.*)	1439	25th May 1865	William Edward Newton.
Covers for rollers used in spinning cotton - -	1901	21st July 1865	George Taylor. Joseph Crossley.
An improved covering for rollers or cylinders -	2157	22nd Aug. 1865	James Alfred Turner.
Manufacture of covers applicable to drawing or printing rollers and as endless blankets - -	2716	20th Oct. 1865	Manuel Leopold Jonas Lavater. John Kershaw.
A new or improved method of preventing the escape of heat from steam cylinders - - (*lining with wood.*)	3051	28th Nov. 1865	William Simons. Andrew Brown.
"Top rollers" employed in the manufacture of fibrous substances.	3073	30th Nov. 1865	John Kerfoot.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COFFEE AND COCOA; COFFEE-POTS AND TEA URNS.			
Machinery or apparatus for cleaning rice, coffee and other grains or seeds having an outer hull or inner pellicle. (*Communicated by Nathaniel Greene and Walter Clement Key.*)	64	9th Jan. 1865	John Henry Johnson.
A chemical combustible substance and apparatus to which it is applicable. (*heating tea urns, coffee-pots, &c.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
A new or improved material to be used in combination with or as a substitute for coffee. (*Communicated by Reni Charles Jules Prevet and Maximilian Louis Joseph Chollet.*)	979	6th April 1865	Martin Diosy.
A mode of obtaining decoctions and apparatus for carrying the same into effect. (*Communicated by Benjamin Green Martin.*)	1227	2nd May 1865	Francis Wise.
Means and apparatus for firing and curing tea - (*Communicated by Thomas Waters.*)	1594	13th June 1865	Albert Robinson.
An improved self-acting apparatus for obtaining a circulation of volatile liquids. (*infusing coffee, tea, &c.*) (*Communicated by Messieurs Françisque Massot and Auguste Juquin.*)	1816	8th July 1865	Hector Auguste Dufrené.
Tea and coffee pots and urns - - -	1950	27th July 1865	Thomas Brown.
Improvements in desiccating the leaves and flowers of plants and other vegetable substances, and in the apparatus to be employed therein. (*leaves of the tea plant.*) (*Communicated by Benjamin Dickinson.*)	2703	20th Oct. 1865	Allan Lawrie M^{c}Gavin.
Improvements in treating or curing the tea leaf and in apparatus employed therein.	2855	4th Nov. 1865	Frederick Campbell.
An improved manufacture of caramel - - - (*for colouring coffee.*) (*Communicated by Thaddeus Hyatt.*)	2950	16th Nov. 1865	Alfred Vincent Newton.
An improvement in the roasting of coffee - - (*Communicated by Thaddeus Hyatt.*)	2951	16th Nov. 1865	Alfred Vincent Newton.
Handles of tea and coffee pots and other similar articles.	3055	29th Nov. 1865	James Thompson.
An improved machine for dressing, sifting, cleaning and polishing fruit, coffee, grain and other matter, parts of which are applicable to coffee sifting, roasting, cooling and cleaning, and other purposes.	3133	6th Dec. 1865	Edwin Whele.
Apparatus for screening grain, seed, rice, tea and other materials.	3239	14th Dec. 1865	Henry William Miller.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COFFINS, TOMBSTONES, MONUMENTAL TABLETS.			
Improvements in the manufacture and application of devices and representations to tombstones, and in other public or exposed situations, for various purposes - - - - - -	1130	22nd April 1865	Alfred Grainger. Charles Mitchel Girdler.
Manufacture and application of glass and other vitreous compositions - - - - - - (*for coffins, monumental tablets, &c.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
An improved manufacture of coffins and air-tight receptacles.	1804	7th July 1865	Joseph George.
Certain sanitary improvements in coffins - -	2459	26th Sept. 1865	John Hargreaves.
Coffins - - - - - - - - (*Communicated by Josef Franz Mayr.*)	2495	28th Sept. 1865	Samuel Dunn.
Improvements in the manufacture of air-tight coffins and in the mode of ornamenting or finishing the same, as also in the application of a material or composition not hitherto used in their production - - - - - -	3014	24th Nov. 1865	Henry John Cox. William Loach.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*repairing monumental sculpture.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
COINS AND MEDALS.			
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for moving dies for stamping medals or coins.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
COMBS.			
Improved machinery or apparatus for shaping the elastic dents of expanding and contracting combs.	189	21st Jan. 1865	Matthew Robinson.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for combs.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COMPASSES; MEASURING ANGLES; SURVEYING AND LEVELLING; MATHEMATICAL AND ASTRONOMICAL INSTRUMENTS.			
Theodolites	70	9th Jan. 1865	Bartholomew Parker Bidder.
A new or improved topograph	84	11th Jan. 1865	Auguste Frederic Lendy.
Ship and other compasses	128	14th Jan. 1865	John Lilley.
Mathematical compasses for ascertaining the utmost correctness of the contents and square of any circle.	235	27th Jan. 1865	Johann Ernst Friedrich Lüdeke.
Compasses or apparatus for registering the course steered by a vessel during any given period.	787	21st March 1865	William Arthur.
Improved apparatus for ascertaining the state of sewers, tunnels, drifts or other subterranean work, part of which apparatus is applicable to levelling purposes.	849	25th March 1865	Richard Williams Barnes.
Straight line dividing engines and tools for regulating distances. (*for marking scales, rules, &c.*)	1245	4th May 1865	William Ford Stanley.
Ship and other compasses	1251	4th May 1865	John Lilley.
An improved apparatus for adjusting levels and other instruments. (*Communicated by Carl Johann Reinhart Jähns.*)	2065	9th Aug. 1865	Arnold Budenberg.
Mounting telescopes and microscopes (*and arranging them for measuring angles.*)	2075	10th Aug. 1865	Carl Johann Reinhart Jähns.
An improved apparatus for illustrating astronomical phenomena. (*tellurians.*)	2139	18th Aug. 1865	Joseph Lionel Naish.
An improved apparatus for and method of ascertaining the state of sewers, tunnels, drifts or other subterranean works, without descending thereinto, by means of the natural, artificial or magnesium light, part of which apparatus is applicable to levelling purposes.	2446	25th Sept. 1865	Richard William Barnes.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles.	2613	10th Oct. 1865	Arthur Nicholls.
Certain improvements in the manufacture of compasses, callipers and dividers	3063	1st Dec. 1865	Isaac John Handley. Charles Wilkins.
Astronomical instruments (*Communicated by George Davidson.*)	3316	22nd Dec. 1865	William Edward Newton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for mathematical instruments.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Construction of levels and theodolites	3329	23rd Dec. 1865	John Coope Haddan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING, COOLING, FREEZING.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - - (*for ice safes and wine coolers.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Improvements in machinery used for condensing atmospheric air, and in machinery worked by compressed air, employed in getting coal, stone and minerals.	96	11th Jan. 1865	James Grafton Jones.
Apparatus called ice safes - - - -	230	26th Jan. 1865	Charles Falck.
Condensation and refrigeration of vapours and fluids.	572	1st March 1865	George Harman Barth.
An improved process and apparatus for impregnating wood with chemical solutions. (*Communicated by Ernest Bazin and Jules Hémery.*)	590	2nd March 1865	William Edward Newton.
Apparatus for heating and cooling atmospheric air and other aëriform bodies, and for heating ovens, and for heating and ventilating buildings.	636	7th March 1865	Loftus Perkins.
Process and apparatus for refrigerating or freezing liquids.	691	11th March 1865	James Henderson.
Improvements in securing low and uniform temperatures, applicable to public and private buildings, also to refrigerators, coolers and condensers, and to ships and other vessels, and in the apparatus employed therein. (*Communicated by Daniel Somes.*)	719	14th March 1865	Alfred Vincent Newton.
Apparatus for distilling oils and other liquids from coal and other substances. (*Communicated by William George Washington Jaeger.*)	727	15th March 1865	William Edward Newton.
Apparatus for cooling animal and other charcoal -	730	15th March 1865	John Frederick Brinjes.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold.	864	27th March 1865	Ferdinand Le Roy.
Improvements in the treatment of meal and the dressing of flour, and the machinery and apparatus employed therein. (*cooling the meal.*)	898	30th March 1865	William Savory.
Improvements in apparatus for lighting and ventilating ships, part of which is also applicable for producing fresh water at sea.	995	7th April 1865	Henry Edmonds.
Improvements in steam generators applicable also to condensers or coolers. (*Communicated by Thomas Luders.*)	1029	11th April 1865	John Henry Johnson.
Certain improvements in gas-ammoniacal engines -	1074	17th April 1865	Louis de St. Céran.
Casting and working so-called "Bessemer steel ingots" - - - - - -	1100	20th April 1865	Thomas Hampton. James Abbott.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING, &c.—*continued.*			
Washing or steeping and bleaching textile or fibrous materials. (*Communicated by Messieurs Neyret, Orioli and Fredet.*)	1144	24th April 1865	William Clark.
Apparatus for disintegrating vegetable and animal substances.	1168	26th April 1865	François Dominique Pierre Jacques Cabasson.
An improved apparatus for condensing steam and feeding bŏilers with the product therefrom.	1180	27th April 1865	Anthony Francis.
Apparatus employed in the reburning of animal charcoal.	1198	29th April 1865	Thomas White.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
An improved refrigerator and condenser - -	1249	4th May 1865	Josiah Hampton.
Improvements in or applicable to marine condensing steam-engines.	1253	4th May 1865	Thomas Wood.
Flour mills - - - - - - (*cooling the stones.*) (*Communicated by Charles Simon Olivier Martineau, Narcisse Justine and Nicolas François Dumet-Prévost.*)	1348	15th May 1865	Henri Adrien Bonneville.
An improved apparatus for freezing, icing and cooling liquids. (*Communicated by Henry Nicholas Dallemagne.*)	1405	22nd May 1865	John Henry Johnson.
Treatment of condensing pans employed in the condensation of milk. (*Communicated by Samuel Percy.*)	1545	5th June 1865	Charles Howard Wansbrough.
Caloric or heated air engines - - - (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Improvements in surface condensers for steam-engines, and in feeding boilers therefrom.	1669	21st June 1865	Charles Talbot Porter.
Surface condensers - - - - - (*Communicated by Alban Crocker Stimers.*)	1677	22nd June 1865	William Edward Newton.
An improved brewers' and distillers' refrigerator or apparatus for cooling liquids, condensing steam or other vapours.	1700	26th June 1865	Morris Ashby.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - - (*ice bins.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Ventilators - - - - - - (*for cooling air.*)	1866	18th July 1865	John Paul Baugh Le Patourel.
An improved apparatus for cooling liquids and cooling or condensing vapours or gases - -	1875	19th July 1865	Thomas Metcalf. Henry Metcalf. Thomas Clayton.
Condensing apparatus for steam-engines - -	1897	20th July 1865	Morgan Lawrence Parry.
Improvements in brewing and distilling, also in drying yeast, and in the apparatus employed.	2019	4th Aug. 1865	Patrick Robertson.
Apparatus for regulating the passage or flow of steam, water and other fluids.	2043	7th Aug. 1865	Adrienne Anastasie Foubert.
Improvements in and connected with the manufacture of copper.	2100	14th Aug. 1865	James Thomas Lockey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING &c.—*continued.*			
Construction of apparatus for distilling and rectifying alcohols. (*Communicated by François Desiré Savalle.*)	2203	28th Aug. 1865	Henri Adrien Bonneville.
Improvements in condensing and utilizing sulphurous smokes and vapours, and in apparatus to be used for that purpose.	2216	29th Aug. 1865	Adolf Gurlt.
Ice safes - - - - - - -	2244	31st Aug. 1865	Henry Clarke Ash.
Improvements in ice houses and in glaciaria or skating places, and in baths.	2292	6th Sept. 1865	Augustus William Parker.
Cooling bacon-curing rooms or chambers - -	2338	12th Sept. 1865	Robert Andrew Boyd.
Improvements in cooling, heating and evaporating, and in apparatus employed therein.	2361	15th Sept. 1865	Walter Blundell.
A new method of and apparatus for condensing the steam of steam-engines.	2376	18th Sept. 1865	Francesco Daina.
Improvements in coke and charcoal ovens and in the manufacture of coke, parts of which are applicable to bread, biscuit and pastry ovens.	2477	27th Sept. 1865	William Morgans.
Improvements in obtaining and applying sulphurous acid and in apparatus used therein. (*for refrigeration.*)	2483	28th Sept. 1865	Rees Reece.
Apparatus for heating, evaporating and cooling liquids - - - - - - -	2494	28th Sept. 1865	Isaac Smith. William Fothergill Batho.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, junior, and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François Georges Sicardo.
An improved truck or barrow for wheeling and tipping coke, coal or other substances. (*cooling.*)	2848	4th Nov, 1865	William Brett.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold.	2853	4th Nov. 1865	James Thys.
Preservation of meat and the concentration of its juices.	2892	10th Nov. 1865	Theophilus Redwood.
Improvements in apparatus for obtaining fresh water from salt and impure water, also applicable for ventilating purposes.	2953	17th Nov. 1865	Samuel Hazard Huntly.
Apparatus for condensing exhaust steam, and heating air by the heat abstracted in effecting the condensation of such steam. (*Communicated by Addison Calvin Fletcher.*)	2996	21st Nov. 1865	Alfred Vincent Newton.
Apparatus for distilling oils and condensing oily vapours.	3101	2nd Dec. 1865	Thomas Newton Bennie.
An improved machine for dressing, sifting, cleaning and polishing fruit, coffee, grain and other matter, parts of which are applicable to coffee sifting, roasting, cooling and cleaning, and other purposes.	3133	6th Dec. 1865	Edwin Whele.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CONDENSING, &c.—*continued.*			
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.
A new and improved apparatus for cooling and purifying air in rooms or compartments, and ventilating the same. (*Communicated by Azel Storrs Lyman.*)	3292	20th Dec. 1865	William Clark.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters.	3344	27th Dec. 1865	Gaston Charles Ange, Marquis D'Auxay.
Improvements in distilling and in relieving distilled and other liquids from gases mechanically mixed therewith. (*and refrigerating.*)	3351	27th Dec. 1865	Norman Willis Wheeler.
CONFECTIONERY, LOZENGES, LIQUORICE CAKES.			
A new kind of pearled or ornamented confectionery	1819	10th July 1865	Henry Schooling.
Improvements in the manufacture of pomfret cakes, rolls and pipes, and of lozenges, and in apparatus to be used in the manufacture of such articles - - - - - - - -	2143	19th Aug. 1865	William Wood. James William Wood.
Manufacture of lozenges, cakes and other similar articles, from plastic substances.	2534	3rd Oct. 1865	Charles James Tinker.
Manufacture of scent and smelling bottles - - (*containing lozenges.*)	2599	9th Oct. 1865	Thomas Miles.
Machinery for the manufacture of lozenges, wafers or pastilles of pasty materials. (*Communicated by Monsieur Joseph Jules Derriey.*)	2730	21st Oct. 1865	Hector Auguste Dufrené.
COOKING AND APPARATUS USED IN COOKING.			
An improved method of cooking and apparatus to be employed therein.	150	18th Jan. 1865	Stephen Ballard.
An improved atmospheric pressure lamp for the burning of benzole, paraffin, naphtha or other volatile oils, which lamp may be used for all the purposes for which lamps are usually required, either for lighting, cooking, heating or other purposes. (*Partly communicated by John Joseph Riddle.*)	562	28th Feb. 1865	William Bell Dalston.
An improved cooking utensil - - -	1041	12th April 1865	Frederic Pelham Warren.
Jacks used when roasting and baking - -	1106	20th April 1865	William Robinson.
Apparatus used when boiling milk - -	1520	2nd June 1865	George Kent. William Hayward West.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COOKING, &c.—*continued.*			
An improvement or improvements in the manufacture of the handles of smoothing irons or sad irons, which said improvement or improvements may also be applied to the manufacture of the handles of various other articles. (*handles of tea kettles.*)	1798	7th July 1865	Thomas Sheldon.
An improved apparatus for cooking, a portion of the same being applicable for washing and ironing.	1917	22nd July 1865	William Wapshare.
Construction of cooking stoves and ranges -	1944	26th July 1865	William Barton.
Sheet metal handles for spoons, saucepans and other utensils for culinary purposes.	2228	30th Aug. 1865	James Fallows.
The manufacture of boiler and tea kettle bottoms, and every other description of die-struck hollow ware.	2237	31st Aug. 1865	Michael Judge.
Improvements in the construction of lids or covers for saucepans and other cooking utensils, part of which improvements is also applicable to the lids or covers of housemaids' pails.	2249	31st Aug. 1865	John Ward.
Treating certain descriptions of vegetables in the process of cooking or boiling the same - -	2744	24th Oct. 1865	Matthew Thomas Cooper Nash. Charles John Nash.
Improvements in generating and applying certain gases, and in apparatus to be employed therein. (*used for cooking.*)	2833	2nd Nov. 1865	James Webster.
Cooking apparatus - - - - -	2971	18th Nov. 1865	Samuel Hazard Huntly.
Construction of kitchen stoves and cooking ranges -	3144	6th Dec. 1865	George Fitzjames Russell.
Apparatus for cooking by steam - - (*Communicated by Francis Milliken.*)	3162	8th Dec. 1865	George Tomlinson Bousfield.
Boilers or apparatus for generating steam - - (*for baking.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Improved apparatus for burning combustible vapor (such as that from naphtha or coal oil) for heating, cooking and lighting purposes. (*Communicated by James Stratton.*)	3317	22nd Dec. 1865	George Davies.
COPYING, TRACING, DRAWING AND WRITING.			
Improvements in pencil holders and pen holders, and in holders for crayons and other marking, writing or drawing materials.	352	8th Feb. 1865	William Edward Wiley.
Improvements in ornamenting china and earthenware, and in preparing materials to be employed therefor. (*crayons.*)	435	15th Feb. 1865	Francis Joseph Emery.
Improvements in reproducing or producing copies of writings, drawings, music and other characters, and in preparing originals to be transmitted by electric telegraph. (*Communicated by Jacques Paul Lambrigot.*)	1457	27th May 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
COPYING, &c.—*continued.*			
Copying presses	1624	15th June 1865	Phineas Lawrence. George Jefferys.
An improved automaton lay figure (*Communicated by Pierre Gallibert.*)	1788	6th July 1865	William Edward Gedge.
Improvements in copying letters, plans and other manuscripts, and in the apparatus and substances employed therein. (*Communicated by Edward Casper.*)	1846	14th July 1865	Henri Adrien Bonneville.
An improved drawing instrument (*Communicated by Mr. Garcia de Morales.*)	1854	14th July 1865	George Clark.
Copying-presses for copying letters and other written documents.	2186	25th Aug. 1865	George Owen.
Engraving on metal (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	2388	19th Sept. 1865	Richard Archibald Brooman.
Portfolios, writing desks, writing cases and other similar apparatus.	2918	13th Nov. 1865	John Stephens.
Application of photography to the obtaining of printed proofs or impressions or engravings	2954	17th Nov. 1865	Edward Bullock. James Bullock.
An improved piece of furniture convertible into a seat with back on either side, a seat with desk on either side, or a seat with table on either side.	3057	29th Nov. 1865	Thomas Laurie.
A covering or cap for protecting the ends of maps, drawings, rolls of paper and other materials that are capable of being rolled up.	3175	9th Dec. 1865	Saint George Howels Davies-Gwyn.
An improved ruler (*Communicated by George Schramm.*)	3193	11th Dec. 1865	James Theodore Griffin.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for copying models, for rulers, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Apparatus for damping and gumming labels, stamps, envelopes and sheets of paper (*for copying letters.*)	3343	27th Dec. 1865	Joseph Benn. George Oswald Luckman.
CORK; CORKS AND BUNGS.			
Improvements in the construction of life belts, swimming belts, jackets and buoys, and in the employment and utilization of certain materials in the manufacture of the same.	341	7th Feb. 1865	Charles Kilburn.
Cork cutting machinery (*Communicated by François Perret.*)	638	7th March 1865	William Clark.
Apparatus for shaping corks	1065	15th April 1865	John McDowall.
Machinery or apparatus for cutting cylindrical or conical articles. (*bungs.*)	1247	4th May 1865	George Redrup.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CORK, &c.—*continued.*			
Corks or bungs for closing bottles and other receptacles for liquids. (*Communicated by Adolphe Jacquesson.*)	1539	5th June 1865	John Henry Johnson.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - (*bungs.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Machinery for cutting and shaping cork, with apparatus for registering the manufacture.	2393	20th Sept. 1865	Leon Villette.
Cork cutting machines - - - - (*Communicated by George Hammer and Alfred Butz.*)	3033	25th Nov. 1865	John Henry Johnson.
CUTTING, SAWING, PLANING.			
I.—Cutting, Sawing, Planing, &c., Metal, Stone, Wood, Cork and Slate.			
An improvement in machines for cutting match splints, tooth picks and similar articles.	74	10th Jan. 1865	Jonathan Clark Brown.
An improved apparatus for cutting iron gas or other pipes. (*Communicated by Jules Chartiez.*)	85	11th Jan. 1865	William Edward Gedge.
Machinery or apparatus for planing and moulding or otherwise shaping wood - - -	143	17th Jan. 1865	John Robinson. John Smith.
An improved system of manufacturing clog soles, patten boards and similar articles by machinery.	416	14th Feb. 1865	Robert John Jones.
Mode of making or forming the links of iron or steel chains, chain cables, shackles, couplings or parts of the same, and for machinery to be used therein.	422	14th Feb. 1865	George Homfray.
Armour plates for vessels of war and for other similar purposes. (*grooving.*)	455	17th Feb. 1865	John Brown.
Machinery for sawing wood - - -	523	24th Feb. 1865	Samuel William Worssam.
Apparatus for operating engineers' and carpenters' tools by hand or other power. (*for planing.*) (*Communicated by Henry Winsor.*)	600	3rd March 1865	James Spence.
Cork cutting machinery - - - - (*Communicated by François Perret.*)	638	7th March 1865	William Clark.
Machinery or apparatus for cutting and shaping metals, making nails, rivets and similar articles	644	8th March 1865	Joseph Wadsworth. James Wadsworth.
A new or improved machine for dressing and rounding the inner surfaces of felloes.	794	22nd March 1865	Hiram Smith Jacobs.
Machinery for cutting, punching, raising, shaping or drawing through sheet metal, by means of tools and dies.	795	22nd March 1865	George Farmer.
Machinery or apparatus for cutting or chasing the threads of screws or worms.	835	24th March 1865	Joseph Green.
Machines for planing and shaping metals - -	856	27th March 1865	John Todd.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Certain improvements in the manufacture of hoop or narrow strip iron.	1063	13th April 1865	Thomas Bennett.
Apparatus for shaping corks - - -	1065	15th April 1865	John McDowall.
Machinery for cutting and dressing stones and other hard substances. (*Communicated by Gustavus Cuppers.*)	1093	19th April 1865	Maurice Vogl.
Casting and working so-called "Bessemer steel ingots" - - - - - - -	1100	20th April 1865	Thomas Hampton. James Abbott.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
An improved cigar cutter - - - -	1139	24th April 1865	Henry Charles Butcher.
Machinery for cutting or shaping masts, spars and other beams and articles of wood.	1179	27th April 1865	Samuel Harvey.
Machinery or apparatus for cutting cylindrical or conical articles.	1247	4th May 1865	George Redrup.
Improvements in means or apparatus for fixing or tightening the ends of boiler and other tubes, and in cutting the ends or other parts of such tubes.	1282	9th May 1865	Ralph Hart Tweddell.
Improved apparatus for cutting, turning and smoothing metal pipes, and the surfaces of bolts, rods or spindles - - - - -	1311	11th May 1865	George Mountford. Edward Worroll.
Construction of saw mills - - - -	1340	15th May 1865	George Ennis.
Machinery for manufacturing clog and patten soles	1351	16th May 1865	Walter Brown.
Machinery applicable to the cutting off the upper parts of piles - - - - - -	1408	22nd May 1865	George Furness. James Slater.
Certain improvements in apparatus for cutting or forming screws, which is also applicable for cutting pipes or tubes.	1411	23rd May 1865	Edward McNally.
Machinery employed in the manufacture of hoops and tyres. (*making grooves on roughing rolls.*)	1425	25th May 1865	John Ramsbottom.
Sawing-machines - - - - - -	1452	27th May 1865	Charles Frazer.
Improvements in making cast-steel railway tires, and in apparatus therefor.	1455	27th May 1865	John Martin Rowan.
Improved machinery or apparatus for cutting off wooden piles below water.	1474	29th May 1865	Charles Henry Murray.
Circular saws commonly called drunken saws -	1475	29th May 1865	William Tighe Hamilton.
Tube cutters and screw stocks - - -	1527	3rd June 1865	Charles Taylor.
Machinery or tools for cutting metals or other materials.	1571	9th June 1865	William Wilson Hulse.
Hammers and other machines actuated by steam or other fluid or vapour - - - - - (*machines for cutting.*)	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Machinery for cutting dovetails for joiners' work -	1671	21st June 1865	William Roberts.
Heating chisels, knives, plane irons, gouges, augers, steels, shears, scythes and saws.	1715	27th June 1865	William Brooks.
Machinery or apparatus for cutting, punching and bending sheet metal. (*Communicated by Nathan Harper.*)	1728	29th June 1865	Robert Henry Leese.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.— *continued.*			
Improvements in portable charge holders for breech loading guns, whether single or double barrelled, as also in the means of manufacturing the said holders and in exploding the charge.	1888	20th July 1865	Charles Rosson.
Machinery for planing metals - - - - (*Communicated by William Sellers.*)	1942	26th July 1865	William Edward Newton.
Apparatus for cutting scales for knives and forming metal webs for knives.	1988	1st Aug. 1865	William Singleton.
A new portable machine or apparatus for the cutting of screw threads on pipes or on solid materials, and for the cutting of pipes asunder.	2055	8th Aug. 1865	Thomas Goode Messenger.
Friction matches, lucifer matches, and matches for relighting, called taper matches.	2153	21st Aug. 1865	Gideon G. Dennis.
Saws for sawing and cutting marble and other analogous substances.	2188	25th Aug. 1865	Edward Henry Woodward.
An improved combination drill brace - - (*cutting off the ends of tubes.*)	2212	28th Aug. 1865	Edward Davies. Richard Hobbs Taunton.
Apparatus for sawing curved designs - - -	2263	2nd Sept. 1865	Jabez Elverson.
Improved machinery for cutting stone - - (*Communicated by George Jeffards Wardwell.*)	2363	15th Sept. 1865	Alfred Vincent Newton.
Machinery for cutting and shaping cork, with apparatus for registering the manufacture.	2393	20th Sept. 1865	Leon Villette.
Machinery for making casks, barrels and other wooden vessels of capacity. (*mounting the saw.*)	2426	22nd Sept. 1865	James Davidson.
Bench stops or abutments used for planing wood and other operations.	2539	3rd Oct. 1865	Joseph Heydon.
Machinery or apparatus for the manufacture of wooden spills.	2577	6th Oct. 1865	Thomas Machin.
Machinery for cutting screws - - - -	2652	14th Oct. 1865	Joseph Tangye.
Machinery for the manufacture of fish hooks -	2673	17th Oct. 1865	Albert Fenton.
Improvements in block matches and in machinery for making the same - - - -	2690	18th Oct. 1865	James Whitford Truman. Henry Lovi.
Reeds for weaving cocoa-nut, jute and other fibres - (*cut from metal.*)	2691	18th Oct. 1865	Thomas Catchpole.
Machinery or apparatus for moulding or cutting moulds, and planing wood and other similar materials - - - - - - - -	2711	20th Oct. 1865	William Blackett Haigh. William Bissell.
Apparatus for splitting and preparing cane - -	2717	20th Oct. 1865	Rémy Biessy.
Mortising machines - - - - -	2731	21st Oct. 1865	William Parsons.
Improvements in tools and apparatus employed in blasting, boring and cutting rock, stone and other hard substances, and in the means employed for making such tools.	2774	27th Oct. 1865	Julian Bernard.
Apparatus for producing accelerated motion for driving purposes - - - - - (*for planing machines.*)	2779	28th Oct. 1865	John Hawthorn Kitson. John Kirby.
Manufacture of spikes - - - - -	2806	31st Oct. 1865	Moses Bayliss.
Machinery for mortising, tenoning and boring hard or soft woods, and drilling iron.	2820	2nd Nov. 1865	James Curtis.
An improved bit for boring mortices in wood or other material.	2857	6th Nov. 1865	William Tighe Hamilton.
Means of renewing the teeth of worn out files - (*for cutting saw teeth.*)	2887	8th Nov. 1865	Joseph Bernard Oscar Lassus.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Machines for fret cutting or sawing - -	2896	10th Nov. 1865	William Middleton.
An improved apparatus for cutting tenons - -	2911	13th Nov. 1865	William Tighe Hamilton.
Certain improvements in cutting or dividing timber, and in the machinery or apparatus connected therewith.	2923	13th Nov. 1865	John Jex Long.
Machinery for cutting or shearing sheet iron and other metallic sheets or plates - - -	2989	21st Nov. 1865	Richard Walters. Thomas Edwin Meese Walters.
Cork cutting machines - - - - - (*Communicated by George Hammer and Alfred Butz.*)	3033	25th Nov. 1865	John Henry Johnson.
A combined adjustable spanner, tube cutter and pipe wrench. (*Communicated by Henry Hitchings Baragwanath and Martin Van Wisker.*)	3036	27th Nov. 1865	John Phillips Barragwanath.
Machinery for cutting mouldings in wood - - (*Communicated by John Bartlett Winslow.*)	3040	27th Nov. 1865	William Edward Newton.
Improved machinery for manufacturing sewing-machine needles - - - - - (*cutting wire into lengths.*) (*Partly communicated by Joseph Thorne.*)	3143	6th Dec. 1865	Nahum Salamon. William John Lawrence Davids.
Machinery or tools for cutting wood or other substances.	3188	9th Dec. 1865	William Wilson Hulse.
An improved construction of tool for cutting tubes - (*Communicated by David Meeker Nichols.*)	3214	12th Dec. 1865	Alfred Vincent Newton.
Machinery for grinding pit frame, crosscut, mill, carpenters' hand back and other saws, and other like metal surfaces where great truth and accuracy is required - - - - -	3223	13th Dec. 1865	George Atkin. Edwin Atkin. Alfred Amos Atkin.
For cutting dye woods, *see* "DYES."			
For cutting files, *see* "FILES and RASPS."			
For cutting screws, *see* "NAILS."			
II.—Cutting Paper, India-rubber and Tobacco; Cutting and Splitting Leather and Cloth.			
Machinery for the manfacture of "cavendish," "negrohead" and other tobacco.	68	9th Jan. 1865	William Davies.
Machinery for pressing and cutting tobacco - - (*Communicated by William Woodman Huse.*)	123	14th Jan. 1865	Alfred Vincent Newton.
Certain improvements in looms and apparatus for weaving velvet-pile and terry-faced fabrics, and a certain mode of producing designs on such like fabrics. (*cutting.*)	153	18th Jan. 1865	Joseph Burch.
A new or improved machine for trimming or cutting the edges of books, magazines and such like articles - - - - -	324	6th Feb. 1865	William Henry Latham. Frederic Cartwright Ward Latham.
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks - - -	399	13th Feb. 1865	David Barr. William Henry Page. James Clement Newey.
An improved apparatus for shearing and burling all sorts of woven fabrics. (*Communicated by Calixte Hippolyte Jean Pierre Demaye and Jean Compagnie.*)	517	24th Feb. 1865	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Paper and cloth-lined paper collars for ladies and gentlemen.	556	28th Feb. 1865	Solomon Salbly Gay.
Certain improvements in apparatus for cutting paper, pasteboard and similar substances.	557	28th Feb. 1865	Mark Mason.
Improvements in machinery employed in the manufacture of paper, part of which is applicable to drying cylinders for other purposes.	581	2nd March 1865	James Park.
Improvements in cutting sheets of india-rubber and like materials into strips or threads, and in machinery or apparatus for the purpose.	656	9th March 1865	Benoni Collins.
An improved machine for cutting button-holes - (*Communicated by George Rehfus.*)	687	11th March 1865	Julius Garelly.
Apparatus for cutting pasteboard and other like boards. (*Communicated by Elizur Ely Clarke.*)	789	21st March 1865	William Clark.
Manufacture of letter clips, book markers, paper knives and clips for suspending stationery, drapery and pictures, and for other such like purposes - - - - - -	933	3rd April 1865	Thomas Corbett. Robert Harrington.
Dissected maps and charts - - - - - (*Communicated by François Auguste Laurecisque.*)	1137	24th April 1865	Henri Adrien Bonneville.
An improved cigar cutter - - - - -	1139	24th April 1865	Henry Charles Butcher.
Certain improvements in mechanism or apparatus for making and cutting cardboard.	1365	17th May 1865	William Haigh.
Apparatus for "lap" and "surface shaving," the splitting and bevilling of leather and other like substances, in sheets and strips.	1635	17th June 1865	Henry Everard Clifton.
Machinery for cutting fustian and like fabrics -	1814	8th July 1865	Benoni Collins. John Butterfield.
Instruments used in cutting the soles of boots and shoes.	1868	18th July 1865	John Pusey Wint.
Improvements in the manufacture of velvets, plushes and other pile fabrics, and in the machinery or apparatus connected therewith. (*cutting and separating the pile.*)	1937	26th July 1865	Jules Bélicard, the younger.
Machinery or apparatus for cutting the edges of paper hangings.	1965	29th July 1865	Alfred Augustus Larmuth.
Improvements in reducing vegetable fibre to pulp, and in machinery employed therein.	2002	2nd Aug. 1865	William Wharton Burdon.
Machinery for manufacturing cigars - - (*Communicated by John Prentice.*)	2032	4th Aug. 1865	Alfred Vincent Newton.
Printing machines - - - - -	2056	8th Aug. 1865	William Rock.
Improved machinery or apparatus for reducing the thickness of parts of calf skins or of other skins or hides. (*Communicated by Adolphe Bel.*)	2136	18th Aug. 1865	William Edward Gedge.
Improvements in the manufacture of velvet and in the apparatus employed therein. (*cutting after dyeing.*) (*Communicated by Messieurs Fraisse-Brossard, fils jeunes.*)	2204	28th Aug. 1865	Henri Adrien Bonneville.
Improvements in cutting the terry or loops of "fustians," cords and similar fabrics, which are also applicable to cutting velvets.	2251	31st Aug. 1865	James Leslie.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CUTTING, &c.—*continued.*			
Machines for splitting, shaving and paring hides, skins and leather.	2282	6th Sept. 1865	Henry Harrison Doty.
Apparatus for cutting tobacco - - -	2359	15th Sept. 1865	Edward Thornton Read.
Manufacture of lozenges, cakes and other similar articles, from plastic substances.	2534	3rd Oct. 1865	Charles James Tinker.
Means or apparatus for cutting or shearing the nap or pile of nap or pile fabrics - - - -	2547	4th Oct. 1865	William Blakey Stocks. James Whitwam. William Blakey.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith. (*cutting gutta-percha for cables.*)	2605	10th Oct. 1865	François Thierry Hubert.
Process of and machinery for preparing flax, hemp, jute, china grass and other analagous vegetable fibres for spinning. (*cutting and mixing.*)	2725	21st Oct. 1865	James Hill Dickson.
Machinery for cutting and rounding boot and shoe soles of leather and other analogous substances. (*Communicated by John Gillingham Felt.*)	2916	13th Nov. 1865	Nathaniel Henry Felt.
An improved leather shaving machine - - -	3118	5th Dec. 1865	William Samuel Cluderay.
Machinery for cutting paper - - -	3189	11th Dec. 1865	Thomas Corfauld Usher.
Machinery for splitting leather, skins and other similar articles. (*Communicated by Sewell Brown Noyes.*)	3277	19th Dec. 1865	George Tomlinson Bousfield.
For cutting roots, &c., *see* "FOOD FOR CATTLE." For cutting sugar, *see* "SUGAR." For cutting rags for paper-making, *see* "PAPER." For rasping dyewoods, *see* "DYES."			
CYLINDERS, ROLLERS, DRUMS; COVERING ROLLERS.			
Apparatus for hulling grain and for reducing granular substances.	38	5th Jan. 1865	Gustav Adolph Buchholz.
Machinery for opening and carding cotton and other fibrous materials. (*rubbing rollers.*)	90	11th Jan. 1865	Robert Tempest.
Manufacturing ordnance and gun barrels of cast-steel or of homogeneous iron - - - -	213	25th Jan. 1865	John Marshall. Henry Mills.
Improvements in the manufacture of ordnance and other like castings and in the apparatus employed therein, also in carriages or moulds for the same. (*cylinders of hydraulic presses.*) (*Communicated by William Jones.*)	295	2nd Feb. 1865	John Henry Johnson.
Mills for grinding wheat and other grain - - (*teeth of grinding cylinder.*)	333	6th Feb. 1865	William Pickford Wilkins.
An improved composition as a substitute for leather or other similar materials - - - - - (*for cotton gin rollers.*)	465	18th Feb. 1865	Christopher Brakell. William Hoehl. William Günther.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Certain improvements in mechanism or apparatus for lubricating the cylinders of "slashing" and "tapeing" machines, such machinery being employed in the sizing of cotton and other yarns.	466	18th Feb. 1865	Thomas Ogden.
Circular box looms - - - - - (*card cylinders.*)	489	22nd Feb. 1865	John Keighley. Richard Shephard.
Cotton gins - - - - - - - (*Communicated by François Durand.*)	531	24th Feb. 1865	Edmond Paul Henri Gondouin.
Improvements in machinery employed in the manufacture of paper, part of which is applicable to drying cylinders for other purposes.	581	2nd March 1865	James Park.
Machinery for scutching and refining flax and other vegetable substances.	627	6th March 1865	Andrew Potts.
Cotton gins - - - - - - -	673	10th March 1865	Evan Leigh.
Machinery for preparing flax, hemp and other fibrous materials requiring like treatment - -	680	10th March 1865	Joseph Samuel. Samuel Millbourn.
Machinery or apparatus for rolling, shaping or forging metals. (*formation of rolls.*)	701	13th March 1865	Robert Marsden.
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads. (*construction of rollers.*)	718	14th March 1865	Longin Gantert.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating cylinders.*)	864	27th March 1865	Ferdinand Le Roy.
File cutting machinery - - - - (*Communicated by Alfred Weed.*)	885	29th March 1865	William Brookes.
Improvements in the treatment of meal and the dressing of flour, and the machinery and apparatus employed therein.	898	30th March 1865	William Savory.
An improved manufacture of inking rollers - (*Communicated by Lewis Francis and Cyrus Loutrel.*)	914	31st March 1865	Alfred Vincent Newton.
Improvements in wringing machines, parts of which are applicable to the construction of rollers. (*Communicated by Stephen Wing and Henry Holly.*)	922	1st April 1865	Henry Lewis.
Improved apparatus for reducing wheat and other straw.	985	6th April 1865	Richard Garrett, jun^{r}.
Machinery for cutting files - - - -	1013	8th April 1865	Thomas Turton.
Printing machinery - - - - -	1026	11th April 1865	David Payne.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Certain improvements in looms for weaving -	1061	13th April 1865	Christopher Turner. Thomas Room.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Machines for cutting or mincing meat, suet and other substances.	1077	17th April 1865	Albert Ward Hale.
Cushions for steam cylinders - - - (*Communicated by Henry Johnson.*)	1079	18th April 1865	Frederick Collier Bakewell.
Manufacture of tin and terne plates - -	1081	18th April 1865	John Jones Jenkins.
An improved machine for straightening, bending, curving and circling beams, bars and plates of iron or other metals.	1082	18th April 1865	John Todd.
Construction of ships or vessels or cars to float on water.	1083	18th April 1865	William Bedder.
Certain improvements in looms for weaving -	1086	19th April 1865	James Edward Hyde Andrew.
Machinery for carding cotton and other fibrous substances and for doubling yarns - -	1094	20th April 1865	James Hall. William Dunkerley. Samuel Schofield.
An improved packing for steam cylinders, stuffing boxes and closed vessels containing water, air or gases, and for other similar purposes. (*Communicated by Frederic Henry Brinkmann and Ernest Frederic Wackwitz the younger.*)	1112	21st April 1865	Edward Thomas Hughes.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - -	1117	21st April 1865	William Scarratt. William Dean.
Engines, machinery and implements employed in ploughing and tilling land.	1123	21st April 1865	Collinson Hall.
Digging machinery - - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
Machinery for preparing and spinning cotton and other fibrous substances.	1125	22nd April 1865	Edward Lord.
Improvements in motive-power machinery for cultivating land, part of which improvements is applicable to driving machinery generally -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Improved means or apparatus for printing felts, floor cloths, carpets and woven fabrics.	1155	25th April 1865	John Wilkinson the younger.
Improvements in steering ships or vessels, and in the machinery or apparatus connected therewith.	1157	25th April 1865	William Elder.
Improvements in the manufacture of waterproof fabrics and in apparatus to be employed therein -	1159	25th April 1865	John Collins Wickham. Auguste Edward Deiss.
Improvements applicable to rollers of machinery for preparing and spinning fibrous substances, which improvements are also applicable to other rollers which are pressed towards each other.	1160	25th April 1865	William Oxley.
Machinery for cutting or shaping masts, spars and other beams and articles of wood.	1179	27th April 1865	Samuel Harvey.
Furnaces used for smelting and melting iron and other metals.	1183	27th April 1865	William Balk.
Apparatus employed in the reburning of animal charcoal.	1198	29th April 1865	Thomas White.
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Leatham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Steam-engines - - - - - (*Communicated by Ebenezer Danford.*)	1264	6th May 1865	William Edward Newton.
Certain improvements in hydraulic presses for packing cotton and other materials or substances, and in the boxes for containing the same - -	1280	9th May 1865	Edward Taylor Bellhouse. William John Dorning.
Improvements in power looms for weaving and in apparatus connected therewith.	1307	11th May 1865	William Jamieson.
An improvement in the drawing and other rollers used in preparing and spinning cotton and other fibrous materials and textile manufactures. (*Communicated by Amos Ashum Taylor.*)	1439	25th May 1865	William Edward Newton.
Improvements in ornamenting japanned surfaces and in machinery or apparatus for that purpose. (*forming the rollers.*)	1454	27th May 1865	Leonard Brierley.
Instruments or apparatus for cleaning the interior of tubes or hollow cylinders, gas chimneys and other hollow articles.	1479	30th May 1865	James Hare the younger.
Certain improvements in the formation and construction of metallic vessels, chambers or hollow cylinders used in hydraulic apparatus, cannon or heavy guns, and for like purposes.	1505	1st June 1865	Herbert Allman.
Machinery or apparatus for bending and straightening angle iron, T iron and other iron bars.	1532	5th June 1865	Charles De Bergue.
Caloric or heated air engines - - - (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Spinning of cotton and other fibrous materials -	1574	9th June 1865	Julius De Hemptinne.
Apparatus for printing wool, worsted or other fibrous materials.	1580	10th June 1865	John Henderson.
An improved machine for curling or curving collars and cuffs.	1589	12th June 1865	George Speight.
Improvements in the manufacture or shaping of iron intended for the shoes of horses and other animals, and in machinery employed therein. (*Communicated by Hector Edouard Bastien.*)	1629	16th June 1865	Richard Archibald Brooman.
An improved composition for the manufacture of printers' rollers.	1694	24th June 1865	Frederic Germain David.
Machines for making paper board - - -	1756	3rd July 1865	John Franklin Jones.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - - (*printing and spinning rollers.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Mandrils for rollers such as are used for printing or embossing - - - - - -	1850	14th July 1865	David Fulton. John Fulton.
Processes and machinery for producing fibres suitable for being spun, from rags or remnants of woven or other textile fabrics made of silk, wool, cotton or other fibrous materials.	1881	19th July 1865	Henry Ernest Gilles.
Apparatus for propelling vessels - - -	1890	20th July 1865	Cortland Herbert Simpson.
Covers for rollers used in spinning cotton - -	1901	21st July 1865	George Taylor. Joseph Crossley.
Manufacture of iron and steel - - - (*rollers for rolling.*) (*Communicated by Martin Dieudonné Henvaux.*)	1964	29th July 1865	Ephraim Sabel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Machinery to be used in the manufacture of plate or sheet iron and steel. (*Communicated by Martin Dieudonné Henvaux.*)	2012	3rd Aug. 1865	Ephraim Sabel.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Machinery or apparatus for sizing, drying and beaming yarns of cotton or other fibrous substances - - - - - - -	2022	4th Aug. 1865	John Gaukroger. John Dodgeon.
Machinery or apparatus for washing wool and other fibrous materials.	2039	5th Aug. 1865	John Petrie, jun^{r}.
Printing machines - - - - -	2056	8th Aug. 1865	William Rock.
Machinery for moulding hollow articles, in earth, clay and other like materials.	2084	11th Aug. 1865	Robert Williams Armstrong.
An improved covering for rollers or cylinders -	2157	22nd Aug. 1865	James Alfred Turner.
Steam hammers - - - - -	2174	24th Aug. 1865	David Davies.
Construction of hydrostatic presses - - -	2304	8th Sept. 1865	John Weems. William Weems.
Magnetic telegraphs - - - - (*roller.*) *Communicated by Robert Kirk Boyle and Guiseppe Tagliabue.*)	2356	14th Sept. 1865	William Clark.
Apparatus for lubricating machinery - - - (*cylinders.*) (*Communicated by Joseph Bouillon.*)	2429	23rd Sept. 1865	Henri Adrien Bonneville.
Presses worked by steam and hydraulic power - (*steam cylinder.*)	2447	25th Sept. 1865	William Routledge. Frederick Francis Ommanney.
Machinery or apparatus for preparing and spinning cotton and other fibrous materials.	2476	27th Sept. 1865	William Tatham.
Compositions used for coating metallic surfaces - (*steam cylinders.*)	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Apparatus for grinding cards of carding-engines -	2518	30th Sept. 1865	Samuel Faulkner.
Improvements in the manufacture of sheet iron or steel cylinders for boilers and similar articles, and in the apparatus relating thereto. (*Communicated by Benoît Bouniard.*)	2529	3rd Oct. 1865	Henri Adrien Bonneville.
Machinery for shaping metal and other substances - (*constructing the rolls.*)	2552	5th Oct. 1865	Hesketh Hughes.
Apparatus for propelling vessels - - - - (*Communicated by Cléanthe St. Coumbary.*)	2601	9th Oct. 1865	William Clark.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith.	2605	10th Oct. 1865	François Thierry Hubert.
Double or single action pumps - - - - (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
Heating calender bowls and other cylinders or rollers.	2636	12th Oct. 1865	William Mather.
Machinery employed for crushing, amalgamating and washing gold quartz and other minerals or matters containing gold or other metal. (*Communicated by James Hart.*)	2643	13th Oct. 1865	William Halse Gatty Jones.
Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances.	2651	14th Oct. 1865	Godfrey Anthony Ermen.

Subject-matter of Patent.	Number of Patent	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - -	2661	16th Oct. 1865	Francis Wise. Edward Field Enoch Harrison Aydon.
Machinery for weaving the covering of blind-cord and other tubular fabrics. (*Communicated by Isaac Emerson Palmer.*)	2681	17th Oct. 1865	Henry Edward Newton.
Rollers for washing yarns and fabrics and for other purposes - - - - - -	2686	18th Oct. 1865	William Schofield. John Smith.
A new or improved sifter for sifting cinders, slack and gravel, and for other like purposes.	2689	18th Oct. 1865	Charles Henry Cope.
Manufacture of covers applicable to drawing or printing rollers and as endless blankets - -	2716	20th Oct. 1865	Manuel Leopold Jonas Lavater. John Kershaw.
An improved method of hanging or suspending blinds from blind rollers, and improvements in the manufacture of such rollers.	2732	21st Oct. 1865	Samuel Parkes Matthews.
Improvements in roller skates, and in the rollers to be used therewith and for other purposes.	2770	27th Oct. 1865	Robert Bell Sanson.
Generating steam in combined vertical cylinders -	2776	28th Oct. 1865	Thomas Brown Jordon.
Certain new or improved machinery for the manufacture of nails. (*rolls.*)	2789	30th Oct. 1865	William Whittle.
Apparatus for grinding and pointing the cards on carding engines. (*grinding rollers.*)	2876	8th Nov. 1865	Robert Swires.
Certain improvements in mechanism or apparatus to be employed for lubricating the cylinders of steam-engines, or other similar frictional surfaces - - - - - -	2881	8th Nov. 1865	Neville Beard. John Maiden.
A new or improved method of preventing the escape of heat from steam cylinders - -	3051	28th Nov. 1865	William Simons. Andrew Brown.
An improved apparatus for stretching and rolling fabrics for dyeing. (*stretching roller.*) (*Communicated by Messieurs Jules Weber and Victor Jacques.*)	3059	29th Nov. 1865	Hector Auguste Dufrené.
"Top rollers" employed in the manufacture of fibrous substances.	3073	30th Nov. 1865	John Kerfoot.
Manufacture of metal tubes - - - - (*grooved rolls.*)	3117	5th Dec. 1865	Philip Albert Muntz.
Steam-engines - - - - - - - (*Communicated by George Bender Whiting and Thomas Fitch Rowland.*)	3308	22nd Dec. 1865	William Clark.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for printers' inking rollers.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Improvements in the manufacture of axles for carriages and spindles for various purposes, and in machinery to be employed in the said manufacture, part of which improvements in machinery may also be applied to other purposes - - (*constructing rolls.*)	3336	26th Dec. 1865	Elias Lones. Joseph Constant Lones. John Lones. John Brettell. Thomas Brettell. Charles Vernon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
CYLINDERS, &c.—*continued.*			
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters. (*cylinders or drums.*)	3344	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.
Apparatus for expanding or keeping fabrics straight in passing into, "through" or out of any machine, or over, under or upon rollers -	3375	29th Dec. 1865	William Edleston. John Schofield.
DENTISTRY; ARTIFICIAL TEETH, TOOTH-PICKS.			
An improvement in machines for cutting match splints, tooth-picks and similar articles.	74	10th Jan. 1865	Jonathan Clark Brown.
A new or improved tooth powder - - -	301	3rd Feb. 1865	Benjamin Lewin Mosely.
An improved instrument for concentrating light, applicable to dental, surgical and other operations	591	2nd March 1865	Charles Rahn.
Apparatus to facilitate dental operations - -	706	13th March 1865	William Donald Napier.
A new or improved receptacle for tooth powder, and for conveying the same from such receptacle to the tooth brush, so as to economise the use of the powder and to prevent the escape of the perfume with which it may be scented.	2470	27th Sept. 1865	Archer Farr.
Securing artificial teeth in the mouth - -	3098	2nd Dec. 1865	George Ash.
Apparatus for regulating heat obtained by the combustion of gas. (*for vulcanising india-rubber for dentists.*)	3268	18th Dec. 1865	Henry Planck.
DESTROYING INSECTS; TRAPS FOR VERMIN, RABBITS, &c.; GAME NETS.			
Vermin and other traps - - - -	312	4th Feb. 1865	Robert Sibley Baker.
Vermin traps - - - - -	938	3rd April 1865	George Kennedy Geyelin.
Traps used for catching rabbits and other animals -	1375	18th May 1865	Richard Toomer Birt.
Vermin traps - - - - -	1886	19th July 1865	James Miles.
An improved apparatus for scattering lime, guano or other artificial manures, either in a dry or liquid state, or for scattering disinfectants. (*or destroying turnip flies.*)	2846	4th Nov. 1865	Alexander Jemmett.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for game nets.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DISINFECTING, DEODORIZING, PERFUMING.			
Impregnating air for hygienic or therapeutic purposes with the vapours or emanations arising from tar, creosote or other suitable liquid antiseptic or antiputrid substances, or disseminating in the air for the said purposes suitable pulverized substances.	112	13th Jan. 1865	Antoine Joseph Sax.
An improved apparatus for containing and dispersing scents and other liquids.	194	23rd Jan. 1865	Edward Atkinson.
Improvements in treating sewage and in arranging apparatus in sewers and culverts to facilitate the ventilation of such structures.	451	16th Feb. 1865	Richard Smith.
A new apparatus for ejecting and spreading liquids and powder.	1044	12th April 1865	Gaspard Alfred Montenat.
Utilizing the stalks, smalls and waste of tobacco for certain purposes - - - - - (*fumigating greenhouses.*)	1844	13th July 1865	George Clayton Collyer. Charles Lewis Roberts.
Ventilators - - - - - - - (*for diffusing disinfectants.*)	1866	18th July 1865	John Paul Baugh Le Patourel.
A new or improved apparatus for supplying disinfecting liquids to water-closets, urinals and other places requiring the same.	1879	19th July 1865	Charles Nicholas.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring, and discharging certain fluids, for sanitary and protective purposes. (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*impregnating the air with disinfectants.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
An improved apparatus for the distribution of perfumes, disinfecting or other fluids - -	2340	13th Sept. 1865	James Dunbar. James William Butler.
An improved arrangement of apparatus and materials to be employed for effecting the deodorizing of the noxious gases arising from sewers and drains, and for the more effectual ventilation and inspection of such sewers and drains.	2451	25th Sept. 1865	Edward Brooke the younger.
Trapping and ventilating sewers - - -	2614	10th Oct. 1865	Richard Abell.
The utilization of town sewage for agricultural purposes, and also to prevent the pollution of rivers and streams, and the machinery and apparatus for effecting the same.	2626	12th Oct. 1865	John Linton.
An improved preparation or composition for coating, covering or coloring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses. (*disinfectant.*)	2638	12th Oct. 1865	William Barwick.
Manufacture of chemical toys known as Pharaoh's serpents. (*perfuming.*)	2694	18th Oct. 1865	Thomas King.
Treatment and deodorization of sewage water -	2808	31st Oct. 1865	Henry Young Darracott Scott.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DISINFECTING, &c.—*continued.*			
An improved apparatus for scattering lime, guano or other artificial manures, either in a dry or liquid state, or for scattering disinfectants.	2846	4th Nov. 1865	Alexander Jemmett.
Improvements in disinfecting stables and cattle sheds, and in the apparatus employed therein.	3075	30th Nov. 1865	John Gamgee.
Manufacture of disinfectants - - - - -	3115	4th Dec. 1865	John Thomlinson.
An improved mode of and apparatus for purifying and deodorising impure air, whether in buildings, ships, mines or sewers, which improvement is also applicable for ventilating purposes -	3287	20th Dec. 1865	Joseph John Harrison. Edward Harrison.
A new and improved apparatus for cooling and purifying air in rooms or compartments, and ventilating the same. (*Communicated by Azel Storrs Lyman.*)	3292	20th Dec. 1865	William Clark.
Compounds for deodorizing and disinfecting -	3355	28th Dec. 1865	Edward Vincent Gardner. Louis Ash Israel. Henry Ash Israel, jun^{r}.
Revivifying, deodorizing and calcining animal and vegetable charcoal and other matters.	3372	29th Dec. 1865	William Cormack.
DISTILLING AND RECTIFYING.			
I.—Alcoholic Distillation, Manufacture of Spirituous Liquors.			
Improvements in the rectification of alcohol, and in the apparatus to be employed therein. (*Communicated by Adrienne Anastasie Foubert.*)	250	28th Jan. 1865	William Edward Newton.
Condensation and refrigeration of vapours and fluids. (*in distilling.*)	572	1st March 1865	George Harman Barth.
Apparatus for distilling, purifying and storing spirituous liquors.	574	1st March 1865	Carl Johan Falkman.
Improvements in securing low and uniform temperatures, applicable to public and private buildings, also to refrigerators, coolers and condensers, and to ships and other vessels, and in the apparatus employed therein. (*cooling apparatus for distilleries.*) (*Communicated by Daniel Somes.*)	719	14th March 1865	Alfred Vincent Newton.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
Improvements in brewing, distillation, the production of vinegar, and the extract of malt and other grain.	1263	5th May 1865	Solomon Bennett.
Apparatus for measuring spirits - - - (*Communicated by John Hutchings Cox, John Murphy and William Murphy.*)	1272	8th May 1865	John Henry Johnson.
Improvements in drying malt and grain, and in the machinery or apparatus connected therewith.	1297	10th May 1865	John Forbes.
Improvements in distilling and rectifying, and in the apparatus employed therein, parts of which improvements are applicable to steam generators.	1662	20th June 1865	Evariste Vignier.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DISTILLING, &c.—*continued.*			
An improved brewers' and distillers' refrigerator or apparatus for cooling liquids, condensing steam or other vapours.	1700	26th June 1865	Morris Ashby.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor (*for distilleries.*)	1996	2nd Aug. 1865	James McEwan. William Neilson.
Improvements in brewing and distilling, also in drying yeast, and in the apparatus employed.	2019	4th Aug. 1865	Patrick Robertson.
Apparatus for regulating the passage or flow of steam, water and other fluids.	2043	7th Aug. 1865	Adrienne Anastasie Foubert.
An improved construction of spirit meter (*Communicated by Edward Payne.*)	2193	26th Aug. 1865	John Fulleck Hearsey.
Construction of apparatus for distilling and rectifying alcohols. (*Communicated by François Desiré Savalle.*)	2203	28th Aug. 1865	Henri Adrien Bonneville.
Improvements in evaporating and distilling liquids, and in the apparatus employed therein.	2590	7th Oct. 1865	Tomlin Campbell.
An improved manufacture of caramel (*for colouring brandy.*) (*Communicated by Thaddeus Hyatt.*)	2950	16th Nov. 1865	Alfred Vincent Newton.
Treatment of spirituous liquors	2962	17th Nov. 1865	Patrick Joseph Fallon.
Fining, purifying and mellowing spirituous liquors by combining therewith other substances, for the production of a new spirituous or vinous compound therefrom.	3071	30th Nov. 1865	William Thompson.
Improvements in distilling and in relieving distilled and other liquids from gases mechanically mixed therewith. (*See* "FILTERING.") For distilling water, *see* "FILTERING."	3351	27th Dec. 1865	Norman Willis Wheeler.
XI.—Bituminous, Resinous, and Oleaginous Distillation.			
Apparatus for distilling petroleum and other volatile liquids and for making gas. (*Communicated by George Hughes Sinclair Duffus.*)	447	16th Feb. 1865	William Edward Newton.
Certain improvements in the manufacture of magnesium and its compounds (*useful in distilling tar water.*)	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.
Improvements in distilling bituminous substances and in apparatus employed therein.	571	1st March 1865	James Young.
Apparatus for distilling oils and other liquids from coal and other substances. (*Communicated by William George Washington Jaeger.*)	727	15th March 1865	William Edward Newton.
Apparatus for the distillation of coal and peat, and such other substances as are or may be used for the manufacture of solid and liquid volatile hydrocarbons, or for the manufacture of the said hydrocarbons and coke.	796	22nd March 1865	William Mattieu Williams.
Apparatus for distilling hydrocarbons from coals, shales and other minerals.	1076	17th April 1865	Joseph Dougan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DISTILLING, &c.—*continued.*			
Apparatus used in distilling hydrocarbons - -	1361	16th May 1865	George Walton.
Distilling apparatus - - - - - -	1393	20th May 1865	John Ambrose Coffey.
An improved method and apparatus for distilling coal shale and other carbonaceous substances. (*Communicated by John Howarth.*)	1553	7th June 1865	James Howarth, M.D.
Treatment of hydrocarbon or paraffin oils - -	2006	3rd Aug. 1865	John William Perkins.
Stills for the distillation of petroleum and other oily substances.	2040	5th Aug. 1865	Adolph Millochau.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products from wood. (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
Apparatus for extracting oil from coal shale and other minerals.	2544	4th Oct. 1865	Allan Craig.
Improvements in the distillation of coal and shale, and in the apparatus employed therein.	2793	30th Oct. 1865	Edward Meldrum.
Manufacture or purification of hydrocarburets, and especially of petroleum oils used for lighting purposes. (*Communicated by Doctor Pierre Gédéon Barry and Chevalier Barthélemy Degola.*)	2945	15th Nov. 1865	William Clark.
Apparatus for the production of hydrocarbon or other vapours, parts of which apparatus are also applicable to measuring gaseous or fluid matter.	2972	18th Nov. 1865	Frederick Wilkins.
Apparatus for distilling oils and condensing oily vapours.	3101	2nd Dec. 1865	Thomas Newton Bennie.
Obtaining oil and other products from bituminous shale - - - - - - - -	3296	20th Dec. 1865	John Watson. John Player.
Treating hydrocarbon oils - - - -	3345	27th Dec. 1865	James Young, jun^{r}.
See also "GAS."			
DOCKS, HARBOURS, BREAKWATERS, PIERS, LANDING-STAGES, CANALS, SEA-WALLS, SUBMARINE WORKS, WEIRS.			
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes.	174	20th Jan. 1865	Louis Balma.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads, and floating piers, gangways, breakwaters and other similar structures, also as a motive power. (*Communicated by William Graham M^{c}Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Protecting wooden surfaces from the fouling and injury to which they are ordinarily liable in sea water. (*piers, breakwaters, &c.*)	263	9th Feb. 1865	John Cornelius Craigie Halkett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DOCKS, &c.—*continued.*			
Formation of embankments, sea-walls, breakwaters and other similar constructions. (*Communicated by Frederic Glover.*)	380	10th Feb. 1865	William Edward Newton.
Improvements in driving piles and in apparatus therefor - - - - - - - (*for harbours, piers, docks, wharves, &c.*)	597	3rd March 1865	David Manwell. James Manwell.
Dredgers - - - - - - -	828	24th March 1865	William Simons. Andrew Brown.
An improvement in paints or compositions used for coating iron or wooden vessels, and other structures exposed to the action of sea-water. (*piers, piles, &c.*)	871	28th March 1865	John Cornelius Craigie Halkett.
An improved composition for preventing the fouling of ships and other vessels. (*Communicated by William Bolivar Davis.*)	1008	8th April 1865	George Davies.
An improved mode of and apparatus for deepening the bottom or bed of rivers, canals, harbours or other similar places.	1017	10th April 1865	Charles François Gheerbrant.
Construction of ships or vessels or cars to float on water.	1083	18th April 1865	William Bedder.
An improved composition for coating iron or other vessels, and for other similar purposes. (*piers, &c.*)	1278	9th May 1865	John Cornelius Craigie Halkett.
Manufacture of iron piers or erections, applicable more especially for carrying bridges at high elevations, or available for sheer legs and light-houses.	1533	5th June 1865	Charles De Bergue.
Method of constructing partitions, walls, floors and roofs of buildings.	1598	13th June 1865	John James Bodmer.
Floating docks - - - - - -	1692	24th June 1865	George Turton.
A new and improved mode of elevating ships or boats in the water, to enable them to pass over sand bars, shallows and the like, and for raising sunken vessels and docks.	1838	12th July 1865	Thomas Cato M'Keen.
Applying and utilising water power - - - (*pumping docks.*)	1967	29th July 1865	Valentine Baker.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor. (*from docks.*)	1996	2nd Aug. 1865	James M'Ewan. William Neilson.
An improved apparatus to facilitate the cleansing and examination of the bottoms of ships and other submerged structures.	2162	22nd Aug. 1865	Derwas Owen Jones.
Caissons for closing the entrances of docks and canals.	2364	15th Sept. 1865	Henry Law.
Floating dry docks - - - - - -	2387	19th Sept. 1865	Edwin Clark.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*defending harbours.*) (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
A new and improved cement - - - - (*for breakwaters.*)	2863	7th Nov. 1865	Thomas Grason. James O'Donoghue.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DOCKS, &c.—*continued.*			
Improvements in the hulls and tackle of navigable vessels, and in the gear for propelling the same by wind and steam or other motive-power engine, and clearing the same from water, and in apparatus connected therewith, to enable the said vessels to be converted in floating graving docks, or lifts for raising vessels and other submerged or partially submerged heavy bodies to or above the surface of the water.	3031	25th Nov. 1865	John Ferrier.
DOORS AND GATES; DOOR FURNITURE.			
Fastenings for doors, windows, drawers and other like purposes - - - - - -	369	9th Feb. 1865	George Edward Meek. William Howes Howes.
Fire and thief proof safes, chests and strong room doors.	543	27th Feb. 1865	Walter Henry Tucker.
Improved iron doors especially adapted for use in ordinary buildings.	660	9th March 1865	Joseph Thomas Harris.
Construction of fastenings or bolts for window sashes and other purposes.	672	10th March 1865	William Smith.
Fire and burglar proof safes, chests, doors and iron rooms.	695	11th March 1865	John Tann.
An improvement in securing safes and strong rooms	702	13th March 1865	Henry Hill.
Certain improvements in the fastenings to be employed in metallic "safes" or other similar depositories - - - - - -	903	31st March 1865	William Milner. Daniel Rowlinson Ratcliff.
Construction of safes or depositories intended to contain valuable property.	904	31st March 1865	Thomas Cook.
Improvements in locks, and in fixing knobs and spindles to doors and latches.	944	4th April 1865	Richard Nabbs.
Securing the doors of safes and other doors -	946	4th April 1865	George Curr Thompson.
Door locks and latches - - - - -	1043	12th April 1865	John Walker.
Bolting and locking arrangements for safe and other doors.	1045	12th April 1865	John Matthias Hart.
Iron safes and strong rooms - - -	1056	13th April 1865	John Chubb. Robert Goater.
Indicators and fastenings for water-closets and other purposes.	1096	20th April 1865	Henry Kindon Taylor.
Invalid carriages - - - - - - (*Communicated by Auguste Quitzow.*)	1120	21st April 1865	Henry Edward Newton.
Locks and lock furniture - - -	1194	29th April 1865	Walter Henry Tucker.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Fastenings for doors, windows, drawers and other like purposes - - - - - -	1578	9th June 1865	George Edward Meek. William Howes Howes.
Improved means or apparatus to be applied to doors and windows for the purpose of supporting or maintaining them in any required position when open, and in securing them when shut.	1581	10th June 1865	Arthur Hamilton Gilmore.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Doors, &c.—*continued.*			
Preventing the forcing or wedging open iron safes, iron doors and strong rooms - - -	1657	20th June 1865	James Parrish. Charles Thatcher. Thomas Glasscock.
Construction of safes or strong receptacles for the protection of property.	1911	22nd July 1865	William Diaper.
Improved mechanical arrangements or fastenings applicable to the doors and cases of safes and strong rooms, for the purpose of preventing the opening thereof by wedges or levers - -	1995	2nd Aug. 1865	Thomas Andrew. James Whiley Taylor.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
Burglar proof safes - - - - -	2006	2nd Aug. 1865	Herbert Allman.
An improved mode of retaining and preventing the vibration of sliding windows used in dwellings and in railway and other vehicles, and for an improved apparatus for effecting the said purposes - - - - - - (*or vibration of doors.*)	2232	30th Aug. 1865	Thomas Wrigley. Marcus Brown Westhead.
Improvements in the manufacture of metallic safes and strong rooms, and in apparatus connected therewith.	2265	2nd Sept. 1865	Samuel Chatwood.
An improved apparatus or mechanism for locking and unlocking railway carriage doors, and for making signals with reference thereto.	2442	23rd Sept. 1865	John Hawkins Simpson.
Fasteners for doors - - - - - -	2566	6th Oct. 1865	Charles Fitz-Gerald.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles. (*doors.*)	2613	10th Oct. 1865	Arthur Nicholls.
A new self-adjusting apparatus for railway signals, applicable also to other purposes. (*working level crossing gates.*)	2715	20th Oct. 1865	George Mussell.
Improved means or apparatus to be applied to doors and windows, for the purpose of supporting or maintaining them in any required position when open, and in securing them when shut.	2819	1st Nov. 1865	Arthur Hamilton Gilmore.
Improvements in the construction of door locks, latches and such like fastenings, and in knob and handle spindles and furniture used therewith.	2889	9th Nov. 1865	Benjamin Pitt.
Manufacture of embossed wood - - - (*for panel ornaments.*) (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
Door springs - - - - - - -	2917	13th Nov. 1865	William Williams.
Fastenings for safe doors and other doors and lids, and for other like purposes.	2979	20th Nov. 1865	Joseph Beverley Fenby.
Apparatus for preventing draughts of air between the floor and the lower part of doors.	3050	28th Nov. 1865	Louis Desiré Carbonnier.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DOORS, &c.—*continued.*			
Certain improvements in the manufacture of knobs for doors, cupboards, ash-pans, and for other like purposes.	3081	1st Dec. 1865	John Wilson.
A new or improved method of and apparatus for locking and unlocking gates, turnstiles and stiles, on railway crossings.	3138	6th Dec. 1865	George Daws.
Improvements in the construction of safes, strong rooms and other similar depositories, and in the locks thereof.	3169	9th Dec. 1865	AntoineGrivel,the younger.
Improvements in the furniture of door locks and latches, and in the means used in applying the same.	3290	20th Dec. 1865	John Martin.
Improvements in the manufacture of safes and in apparatus connected therewith. (*doors.*)	3321	23rd Dec. 1865	Samuel Chatwood.
Improvements in safes and in protecting the locks and bolts of safes, and other locks and bolts - (*applicable to warehouse doors.*)	3324	23rd Dec. 1865	Joseph Groves. George Robinson, the younger.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*for door knobs.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
DRAINS, SEWERS, GUTTERS; DRAIN PIPES AND TILES; DRAINING; STENCH TRAPS.			
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes. (*for draining.*)	174	20th Jan. 1865	Louis Balma.
Working ships' pumps - - - -	303	3rd Feb. 1865	Matthew Blank.
An improvement in the manufacture of artificial stone for building and other purposes. (*for sinks.*)	441	16th Feb. 1865	William Kirrage.
Improvements in treating sewage and in arranging apparatus in sewers and culverts to facilitate the ventilation of such structures.	451	16th Feb. 1865	Richard Smith.
Traps to prevent the uprising of noxious gases in sewers, drains, sinks, shafts and other passages for fœces and other matter.	698	13th March 1865	John Bragg.
Improved apparatus for ascertaining the state of sewers, tunnels, drifts or other subterranean work, part of which apparatus is applicable to levelling purposes.	849	25th March 1865	Richard William Barnes.
Improvements in steam-engines, relating to valve motions, governor and drain pipes - -	1195	29th April 1865	Andrew Wyllie. John McFarlane Gray.
Manufacture and application of glass and other vitreous compositions - - - - (*for sinks.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRAINS, &c.—*continued.*			
Apparatus for trenching and laying drain pipes for draining land.	1396	20th May 1865	William Eddington, jun^{r}.
Method of constructing partitions, walls, floors and roofs of buildings.	1598	13th June 1865	John James Bodmer.
An improvement in ejectors for discharging bilge water and for other purposes. (*Communicated by Nathan Leffingwell Chappell and Blase Lorillard.*)	1981	31st July 1865	Alfred Vincent Newton.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor. (*from marshes, sewerage, pools, &c.*)	1996	2nd Aug. 1865	James McEwan. William Neilson.
An improved gully or stench trap for the prevention of the escape of noxious effluvia from drains or sewers, and for preventing the ingress of sand or other solid matters into the same.	2167	23rd Aug. 1865	John Newton.
An improved stench-trap and sink-pipe protector -	2220	29th Aug. 1865	William Henry Gummer.
An improved apparatus for and method of ascertaining the state of sewers, tunnels, drifts, or other subterranean works, without descending thereinto, by means of the natural, artificial, or magnesium light, part of which apparatus is applicable to levelling purposes.	2446	25th Sept. 1865	Richard William Barnes.
An improved arrangement of apparatus and materials to be employed for effecting the deodorizing of the noxious gases arising from sewers and drains, and for the more effectual ventilation and inspection of such sewers and drains.	2451	25th Sept. 1865	Edward Brooke, the younger.
Improvements in fittings for stables, cowsheds, and piggeries, and in effluvium traps for stables and other places.	2499	28th Sept. 1865	Edward Cottam.
Trapping and ventilating sewers - - -	2614	10th Oct. 1865	Richard Abell.
The utilization of town sewage for agricultural purposes, and also to prevent the pollution of rivers and streams, and the machinery and apparatus for effecting the same.	2626	12th Oct. 1865	John Linton.
An improved overflow for basins, sinks and baths -	2637	12th Oct. 1865	Hugh Hourston Craigie.
Construction of pumps for raising water and other liquids. (*for collieries.*)	2946	15th Nov. 1865	William Easton.
An improvement in ejectors for discharging bilge water and for other purposes. (*Communicated by Nathan Leffingwell Chappell.*)	3001	22nd Nov. 1865	Alfred Vincent Newton.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*making waterspouts.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - (*purifying sewer pits.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRAINS, &c.—*continued.*			
An improved mode of and apparatus for purifying and deodorising impure air, whether in buildings, ships, mines or sewers, which improvement is also applicable for ventilating purposes -	3287	20th Dec. 1865	Joseph John Harrison. Edward Harrison.
DRAMATIC AND SCENIC EFFECTS, ILLUSORY EXHIBITIONS, STAGE SCENERY.			
Improved machinery for working all stage scenery in theatres.	131	16th Jan. 1865	Walter Edwin.
A new or improved apparatus for illusory exhibitions - - - - - - -	222	26th Jan. 1865	John Henry Pepper. Thomas William Tobin.
Philosophical examination into the alleged spirit manifestations, consisting of a lamp and a close room.	1148	24th April 1865	Owen Grenliffe Warren.
A new or improved method of obtaining or producing optical illusions.	1588	12th June 1865	Gaetan Bonelli.
A new or improved apparatus for illusory exhibitions - - - - - - -	1983	1st Aug. 1865	Thomas William Tobin. Colonel Stodare.
Apparatus for illusory exhibitions - - -	3139	6th Dec. 1865	John Henry Pepper. Thomas William Tobin.
A novel optical arrangement by which a new scenic effect is produced.	3286	20th Dec. 1865	Walter Kerr.
DRYING AND STRETCHING; EXPRESSING MOISTURE.			
Manufacturing paper - - - - - (*Communicated by Jules Joseph Manecy.*)	15	3rd Jan. 1865	Léopold D'Aubréville.
Apparatus for drying paper in sheets - - -	198	23rd Jan. 1865	Alfred Sheldon.
Filtering apparatuses - - - - - (*and draining or drying.*)	249	28th Jan. 1865	Victor Burg.
An improved system of drying wool, cotton and other fibrous materials, and in the machinery or apparatus connected therewith. (*Communicated by Carl Beu and Louis Boettcher.*)	255	28th Jan. 1865	Edward Thomas Hughes.
An improved clothes fastener, that may also be used as a letter clip. (*whilst drying.*)	268	31st Jan. 1865	James William Gill.
Machinery for washing and drying wool and other fibrous matarials - - - - - -	281	1st Feb. 1865	John McNaught. William McNaught, jun^{r}.
Improvements in treating or manufacturing peat for fuel, and in apparatus for the same.	319	4th Feb. 1865	Robert Morellet Alloway.
Apparatus for extracting liquid from solid substances. (*See* "PRESSES.") (*Communicated by Lyman Smith.*)	486	21st Feb. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRYING, &c.—*continued.*			
Boilers for heating water and delivering it at an equal temperature to any number of flow pipes, and also for the generation of steam. (*heating drying rooms.*)	493	22nd Feb. 1865	Jasper Hulley.
Manufacture or treatment of floor cloths - -	548	27th Feb. 1865	Michael Barker Nairn.
Improvements in machinery employed in the manufacture of paper, part of which is applicable to drying cylinders for other purposes.	581	2nd March 1865	James Park.
Drying apparatus - - - - - (*Communicated by Félix Monmon and Auguste Racinet.*)	603	4th March 1865	Henri Adrien Bonneville.
Apparatus for rinsing and drying by centrifugal force. (*Communicated by Félix Monmon and Auguste Racinet.*)	604	4th March 1865	Henri Adrien Bonneville.
Improvements in drying and sorting coals, peat and mineral ores, in separating extraneous matters therefrom, and in apparatus used in those processes.	715	14th March 1865	Ferdinand Henry Warlich.
Process of preparing kaolin or china clay and other clays for potters' use, and for expelling water from other earthy deposits. (*Communicated by Joseph Muir.*)	805	22nd March 1865	James Wright.
Improvements in the preparation or treatment of sea weed and in obtaining products therefrom -	877	28th March 1865	Richard Young. Charles Finlay Oliphant Glassford, F.C.S.
Certain improvements in machinery or apparatus for drying "warps" of cotton and other fibrous substances - - - - -	889	29th March 1865	Richard Holroyd. Joseph Holroyd Bolton.
Improved apparatus for expressing liquids from pulpy and semi-fluid substances. (*Communicated by Louis Pierre Robert de Massy.*)	955	4th April 1865	William Edward Newton.
Fire places and flues and apparatus connected therewith. (*flues for drying sheds.*)	989	7th April 1865	Edward Welch.
Certain improvements in dyeing or printing upon the fabric known as "sail cloth."	1006	8th April 1865	James Isherwood.
Clamps for stretching frames and other purposes -	1039	12th April 1865	Henry Bridson.
Treating wool in order to cleanse it from burrs, seeds and other foreign matters - - -	1042	12th April 1865	Henry Sikes. George Jarmain.
Constructing portable hot rooms or chambers for drying cloths and other articles.	1135	24th April 1865	Welburn Williamson.
Improvements in the manufacture of water-proof fabrics, and in apparatus to be employed therein	1159	25th April 1865	John Collins Wickham. Auguste Edward Deiss.
Drying yarns - - - - - (and stretching yarns whilst drying.)	1193	29th April 1865	Robert Ferrie. John Murray. Adam Wilson.
Machines for drying and stretching woollen and other textile fabrics. (*Communicated by Joseph Spencer Wilson.*)	1233	3rd May 1865	George Tomlinson Bousfield.
Means and apparatus used for stretching woven fabrics and other materials. (*Communicated by John Thomson.*)	1239	3rd May 1865	William Clark.
Improvements in drying malt and grain, and in the machinery or apparatus connected therewith.	1297	10th May 1865	John Forbes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRYING, &c.—*continued.*			
Machinery or apparatus for stretching and drying textile fabrics, part or parts of which said apparatus are also applicable to other machines wherein fabrics are required to be distended -	1360	16th May 1865	James Worrall. Thomas Hughes.
An improved mode of desiccating eggs and apparatus for effecting the same.	1632	16th June 1865	Charles Augustus Lamont.
Sizing machines for sizing yarns, beams or warps to be woven - - - - - -	1729	29th June 1865	David Mercer. Thomas Mercer. Jonathan Mercer. Joseph Mercer.
Machinery for the manufacture of paper board and paper.	1787	6th July 1865	John Franklin Jones.
Machinery for washing, wringing, mangling and drying domestic clothes or other fabrics and fibrous substances - - - - -	1827	10th July 1865	Henry Fearnley. Christopher Smith.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - -	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Machinery or apparatus for sizing, drying, and beaming yarns of cotton or other fibrous substances - - - - - - -	2022	4th Aug. 1865	John Gaukroger. John Dodgeon.
An improved mode of and apparatus for drying timber, grain and other marketable products. (*Communicated by Henry Bulkley.*)	2127	17th Aug. 1865	Alfred Vincent Newton.
Method of and apparatus for treating peat and other plastic materials - - - - - (*drying apparatus.*)	2219	29th Aug. 1865	Hull Terrell. Thomas Don.
Preparing peat or turf for fire lights and fuel, and for machinery to be employed therein.	2436	23rd Sep. 1865	Thomas Vincent Lee.
Improvements in grinding wheat and other grain, and in apparatus for drying and improving the condition of damp wheat or other grain.	2485	28th Sep. 1865	Benjamin Wren.
Improved machinery for feeding fibrous substances to preparing, carding and other machinery for working wool and other filamentous substances. (*drying machines.*) (*Communicated by Alexandre Deru.*)	2517	30th Sep. 1865	William Edward Newton.
Preparation of meat for food - - - (*drying meat.*)	2677	17th Oct. 1865	Arthur Hill Hassall, M.D.
Machinery for hanging fabrics in stoves or chambers	2685	18th Oct. 1865	William Schofield. John Smith.
Improvements in desiccating the leaves and flowers of plants and other vegetable substances, and in the apparatus to be employed therein. (*Communicated by Benjamin Dickinson.*)	2703	20th Oct. 1865	Allan Lawrie M'Gavin.
Certain improvements in apparatus employed in the manufacture and production of metallic pipes, tubes or other similar hollow castings. (*Communicated by Alfred Bertsch.*)	2804	31st Oct. 1865	Arthur Deslandes.
Arrangements or apparatus for drying peat -	2824	2nd Nov. 1865	Murdoch Campbell. Algernon Charles Plumptre Coote. John Charles Augustus Henry Wolffram.
Stoves for drying moulds - - - -	2943	15th Nov. 1865	Henry Cochrane.
An improvement in the manufacture of friction matches and tapers.	3002	22nd Nov. 1865	Samuel Alexander Bell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DRYING, &c.—*continued.*			
An improved apparatus for stretching and rolling fabrics for dyeing. (*Communicated by Messieurs Jules Weber and Victor Jacques.*)	3059	29th Nov. 1865	Hector Auguste Dufrené.
Construction of fire-places and furnaces - - (*with ovens or drying chambers.*)	3247	15th Dec. 1865	George Warriner.
Boilers or apparatus for generating steam - - (*for drying.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Machinery for drying and bleaching grain and other materials.	3276	19th Dec. 1865	William Creasy.
DYEING TEXTILE FABRICS, YARNS AND MATERIALS; FIXING COLOURS; MORDANTS.			
Dyeing leather - - - - - -	168	19th Jan. 1865	Tasso Labrousse. John Keily.
Coloring kempy wool and hair - - -	227	26th Jan. 1865	Henry William Ripley.
Dying the herbs and straw used in the manufacture of straw hats and artificial flowers, or other fancy articles.	463	18th Feb. 1865	Emile Carchon.
An improved method of treating yarns or threads previously to the processes of dyeing or dressing.	490	22nd Feb. 1865	James Mallison.
An improved process and apparatus for dyeing and preparing cotton, worsted and silk warps.	617	4th March 1865	Abraham Akeroyd.
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads.	718	14th March 1865	Longin Gantert.
Preparing, fixing and mordanting cloth and yarns -	762	18th March 1865	Thomas Kenyon the younger.
Dyeing and printing cotton or linen fabrics or yarns.	804	22nd March 1865	Alfred Paraf.
Certain improvements in machinery or apparatus for drying "warps" of cotton and other fibrous substances - - - - - - (*after dyeing.*)	889	29th March 1865	Richard Holroyd. Joseph Holroyd Bolton.
Certain improvements in dyeing or printing upon the fabric known as "sail cloth."	1006	8th April 1865	James Isherwood.
Means of ornamenting linen cuffs and collars -	1010	8th April 1865	Joseph Debnam.
Dyeing yarns - - - - - -	1193	29th April 1865	Robert Ferrie. John Murray. Adam Wilson.
Manufacture of flock fabrics - - - - (*dyeing, &c.*) (*Communicated by the American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
An improved manufacture of waterproof fabric - (*Communicated by the American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DYEING, &c.—*continued.*			
A new or improved machine or apparatus for tying or winding strings or threads upon a certain part or parts of hanks of cotton, silk, linen, thread, worsted, merino or other yarn, previous to dyeing the same.	1248	4th May 1865	Frederick Caldwell.
Machinery for stretching cotton and other fabrics or materials.	1317	12th May 1865	James Hesford.
Dyeing and sizing cotton, silk, woollen and other yarns - - - - - - -	1413	23rd May 1865	Isaac Holt. William Holt. James Holt. Joseph Maude.
Applying coal-tar colors to cotton and linen -	1428	25th May 1865	Robert Maxwell.
Certain improvements in the manufacture and production of chromate and bichromate of potash employed in dyeing and printing woven fabrics.	1579	10th June 1865	Joseph Mayer Dentith.
Apparatus for printing wool, worsted or other fibrous materials.	1580	10th June 1865	John Henderson.
Improvements in the manufacture of naphthalic acid and chloroxynapthalic acid, and in dyeing and printing - - - - - -	1605	13th July 1865	François Alexandre Laurent. John Casthelaz.
An improved self-acting apparatus for obtaining a circulation of volatile liquids. (*infusing colours.*) (*Communicated by Messieurs Francisque Massot and Auguste Juquin.*)	1816	8th July 1865	Hector Auguste Dufrené.
An improved system of manufacturing salts, sulphates and acetates of chrome, and of applying them as mordants in dyeing and printing textile substances both animal and vegetable.	1905	21st July 1865	Jean Henri Chaudet.
Preparation and application of certain colouring matters - - - - - - -	1947	27th July 1865	Pierre Alexis. Francisse Bobœuf.
Means or apparatus for promoting the combustion of fuel in furnaces of steam-boilers, dyers' or brewers' pans and other furnaces, whereby smoke is prevented and fuel economized - -	1972	31st July 1865	Benjamin Robinson. Joseph Varley.
Printing and dyeing yarns and fabrics of cotton or other vegetable materials - - - -	2053	8th Aug. 1865	James Buchanan, jun^{r}. Robert Boyd.
Printing-machines - - - - -	2056	8th Aug. 1865	William Rock.
Production of violet colours from magenta for dyeing and printing.	2070	9th Aug. 1865	Ludwig Schad.
Machinery used in washing, bleaching, and dyeing yarns and textile fabrics in the hank - -	2113	16th Aug. 1865	John Smith. William Schofield.
An improvement in dying and preparing hemp and other fibres for the manufacture of yarns and fabrics.	2129	18th Aug. 1865	George Hedgcombe Smith.
Dyeing and printing woollen or silk fabrics and yarns.	2201	28th Aug. 1865	Alfred Paraf.
Improvements in the manufacture of velvet and in the apparatus employed therein. (*dyeing before cutting.*) (*Communicated by Messieurs Fraisse-Brossard, fils jeunes.*)	2204	28th Aug. 1865	Henri Adrien Bonneville.
Dyeing and fixing colours in fibres, yarns and fabrics. (*Communicated by Auguste Jeannolle.*)	2206	28th Aug. 1865	Henri Adrien Bonneville.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DYEING, &c.—*continued.*			
Dyeing and printing fabrics and yarns, and animal or mixed animal and vegetable substances.	2327	11th Sept. 1865	John Lightfoot.
Improvements in the manufacture of coloring matter, and in the application thereof to dyeing and printing.	2424	22nd Sept. 1865	Alexander Schultz.
Dyeing - - - - - - - -	2506	29th Sept. 1865	John De Weweirne, jun. and Alexandre Verschaffelt.
Printing or impressing and dyeing fabrics and tissues. (*Communicated by Félix Dehaut.*)	2701	19th Oct. 1865	William Clark.
Improvements in the manufacture of chromates of ammonia and chromic acid, and in the preparation of nitrates of lime and baryta. (*from residues of dye-works.*) (*Communicated by Félix Dehaut.*)	2702	19th Oct. 1865	William Clark.
Printing and dyeing textile fabrics and yarns -	2859	6th Nov. 1865	Alfred Paraf.
Means of producing from rosaniline blue and violet colouring matters. (*and applying.*) (*Communicated by Prosper Monnet.*)	2894	10th Nov. 1865	Edward Thomas Hughes.
Bleaching feathers - - - - - - (*and dyeing.*) (*Communicated by Adolphe Pierre Viol and Claude Pierre Duflot.*)	2987	20th Nov. 1865	William Clark.
An improved apparatus for stretching and rolling fabrics for dyeing. (*Communicated by Messieurs Jules Weber and Victor Jacques.*)	3059	29th Nov. 1865	Hector Auguste Dufrené.
Treatment of matter for dyeing and printing -	3069	30th Nov. 1865	Alexander Campbell Duncan.
Dyeing, printing and other operations based on chemical reactions. (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
Dyeing and printing - - - - -	3280	19th Dec. 1865	Louis Durand.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes.	3318	22nd Dec. 1865	John Alexander Cooper.
See also "DYES."			
DYES AND PRINTING-COLOURS.			
Filtering apparatuses - - - - - (extracts of dye woods.)	249	28th Jan. 1865	Victor Burg.
Certain improvements in the treatment of madder and the products obtained therefrom. (*Communicated by Monsieur Jules Persoz.*)	538	25th Feb. 1865	Peter Armand Le Comte de Fontaine-Moreau.
Preparing certain colouring matters for dyeing and printing. (*Communicated by Jean Lorentzen.*)	705	13th March 1865	Francis Wise.
Preparation of hydrated oxide of chromium - (*Communicated by Charles Kestner.*)	788	21st March 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DYES, &c.—*continued.*			
Obtaining violet coloring matters - -	1098	20th April 1865	Ernest Smith. Christian Sieberg.
Calico and linen printing - - - - -	1420	24th May 1865	John Dale. Alfred Paraf.
Means of producing from rosaniline blue and violet colouring matters soluble in water. (*Communicated by Prosper Monnet.*)	1585	12th June 1865	Edward Thomas Hughes.
Obtaining jellies, syrups, drinks and other products, from the tree Arbutus Unedo, known as the Arbutus. (*violet and green colours.*)	1649	20th June 1865	Philippe Mingaud.
Production of pigments suitable for printing upon paper and woven fabrics - - - -	1766	4th July 1865	John Dale. Richard Samuel Dale.
An improved system of manufacturing salts, sulphates and acetates of chrome, and of applying them as mordants, in dyeing and printing textile substances both animal and vegetable.	1905	21st July 1865	Jean Henri Chaudet.
Preparation and application of certain colouring matters - - - - - -	1947	27th July 1865	Pierre Alexis. Francisse Bobœuf.
Apparatus for filtering sugar and other liquid solutions - - - - - -	2023	4th Aug. 1865	Jean Adolphe Leon. George Tessimond. John Kissack.
Printing and dyeing yarns and fabrics of cotton or other vegetable materials - - - -	2053	8th Aug. 1865	James Buchanan, jun^{r}. Robert Boyd.
Production of violet colours from magenta, for dyeing and printing.	2070	9th Aug. 1865	Ludwig Schad.
Manufacture of violet dye-stuffs - - -	2194	26th Aug. 1865	James Alfred Wanklyn.
Improvements in the manufacture of compounds of silica and in the production of silicated alkaline inks, colours and dyes.	2267	2nd Sept. 1865	Henry Ellis.
Preparing certain coloring matters - -	2335	12th Sept. 1865	John Holliday.
Improvements in the manufacture of coloring matter, and in the application thereof to dyeing and printing.	2424	22nd Sept. 1865	Alexandre Schultz.
Preparing red and violet coloring matters for dyeing and printing silk, wool, cotton and other textile vegetable and mineral substances. (*Communicated by Philibert Chevalier.*)	2536	3rd Oct. 1865	Richard Archibald Brooman.
Preparing violet, blue and red coloring matters -	2564	6th Oct. 1865	James Holliday.
Improvements in the manufacture of chromates of ammonia and chromic acid, and in the preparation of nitrates of lime and baryta. (*from residues in manufacture of aniline.*) (*Communicated by Félix Dehaut.*)	2702	19th Oct. 1865	William Clark.
Manufacture of coloring matter for dyeing and printing.	2825	2nd Nov. 1865	Ludwig Schad.
Means of producing from rosaniline blue and violet colouring matters. (*Communicated by Prosper Monnet.*)	2894	10th Nov. 1865	Edward Thomas Hughes.
Treatment of matter for dyeing and printing -	3069	30th Nov. 1865	Alexander Campbell Duncan.
Dyeing, printing and other operations based on chemical reactions. (*mixing colours.*) (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
DYES, &c.—*continued.*			
A new coloring matter for producing scarlet colors upon woven fabrics and yarns - - - -	3111	4th Dec. 1865	Alfred Paraf. Richard Samuel Dale.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes.	3318	22nd Dec. 1865	John Alexander Cooper.
Manufacture of aniline green - - - - (*Communicated by Charles Lauth.*)	3374	29th Dec. 1865	Edward Joseph Hughes.
EARTHENWARE AND PORCELAIN; POTTERY KILNS; POTTERS' GLAZES; CERAMIC WARES; TERRA COTTA.			
Certain improvements in rendering soundless furniture and other articles for domestic purposes. (*china and pottery.*)	196	23rd Jan. 1865	Adolphe Drevelle.
Filtering apparatuses - - - - - (*for ceramic slips.*)	249	28th Jan. 1865	Victor Burg.
A new mode of placing china, stone and earthenware, in saggers, ovens and kilns, or other receptacles for firing the same.	276	1st Feb. 1865	James Meakin.
Improvements in ornamenting china and earthenware, and in preparing materials to be employed therefor.	435	15th Feb. 1865	Francis Joseph Emery.
An improved method and machinery for the manufacture of various articles in pottery, earthenware or porcelain, by mechanical process. (*Communicated by Edme Mercier.*)	453	17th Feb. 1865	William Edward Gedge.
Process of preparing kaolin or china clay and other clays, for potters' use, and for expelling water from other earthy deposits. (*Communicated by Joseph Muir.*)	805	22nd March 1865	James Wright.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - (*such as articles made in clay.*)	1117	21st April 1865	William Scarratt. William Dean.
Improvements in the manufacture and application of devices and representations to tombstones, and in other public or exposed situations, for various purposes - - - - - (*ornamenting porcelain.*)	1130	22nd April 1865	Alfred Grainger. Charles Mitchel Girdler.
Improvements in photographing upon wood, and in the preparation of wood, canvas, silk, glass and other substances, for the purpose of receiving and retaining impressions.	1174	26th April 1865	William Henry Smith.
Production of portraits or likenesses on certain materials, by means of photography - - (*producing likenesses on ceramic wares.*)	1184	27th April 1865	Alfred Grainger. Charles Mitchel Girdler.
Improvements in the treatment of clays and other materials with which they are mixed when used in the manufacture of china, porcelain, earthenware and other like wares, and in ornamenting or decorating china, porcelain, earthenware and other like wares.	1414	23rd May 1865	Alexander Hett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EARTHENWARE, &c.—*continued.*			
A new or improved compound spherical rest for ornamental turning lathes. (*or for engraving pottery.*)	1441	25th May 1865	Thomas Hallam Hoblyn.
Kilns for firing porcelain and other ware - - (*Communicated by François Durand.*)	1582	10th June 1865	Richard Archibald Brooman.
An improved method of and apparatus for manufacturing pottery. (*Communicated by Georges Gros.*)	1627	16th June 1865	William Edward Gedge.
Manufacture of terra-cotta or vitreous stone -	2071	10th Aug. 1865	Mark Henry Blanchard.
Machinery for moulding hollow articles, in earth, clay and other like materials.	2084	11th Aug. 1865	Robert Williams Armstrong.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*enamelling earthenware.*) (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Machinery or apparatus for making pottery, earthenware or ceramic articles.	3015	24th Nov. 1865	George Wardle Turner.
An improved composition for enamel, paint, varnish, cement or plaster. (*for coating earthenware.*) (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - - (*from pulverised clay.*)	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
Improved machinery for compressing and solidifying coal, clay and other analogous substances.	3242	14th Dec. 1865	Henry George Fairburn.
ELECTRICITY, GALVANISM AND MAGNETISM, AND THEIR APPLICATION.			
Electro-magnets and their application to telegraphic and other purposes. (*Communicated by Charles Frédéric Carlier.*)	22	4th Jan. 1865	William Clark.
Apparatus used in train signalling on railways -	52	6th Jan. 1865	Edward Tyer.
Method of and apparatus for applying electro-magnetism as a break power to railway and other carriages and machines - - - -	101	12th Jan. 1865	Frederic Barnes. David Hancock. Edward Cowpe.
A new electric pile - - - - -	206	24th Jan. 1865	Jules Rovère. Hilarion Antoine Bernard Huguet.
The application of hydro-electricity to steam for the purpose of increasing its expansion and power, and the machinery or apparatus connected therewith, and also the application of galvano or frictional electricity for the same purpose - - - - - -	273	31st Jan. 1865	Joseph Fletcher. Daniel Hamer.
The improved use of magnets in overbalancing weights.	461	18th Feb. 1865	Thomas Philip Tregaskis.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRICITY, &c.—*continued.*			
Improvements in the manufacture of iron and in articles made thereof.	470	18th Feb. 1865	William Robinson.
New or improved indicating apparatus for the protection of railway passengers, buildings, rooms, safes and other objects - - -	472	18th Feb. 1865	Leicester William Glen Rowe. Adolphe Baab.
Construction of electro-magnetic apparatus for railway signalling and other purposes - -	488	22nd Feb. 1865	Charles Vincent Walker. Alfred Owen Walker.
An improved process and apparatus for impregnating wood with chemical solutions. (*Communicated by Ernest Bazin and Jules Hémery.*)	590	2nd March 1865	William Edward Newton.
Improved apparatus for the protection of houses and property from burglars, parts of the invention being applicable for other purposes.	619	6th March 1865	Cromwell Fleetwood Varley.
Electric telegraphs - - - - - (*Communicated by Gaetano Bonelli.*)	678	10th March 1865	Harry Whiteside Cook.
Electric piles and apparatus - - - (*Communicated by Pierre Etienne Lequesne.*)	723	15th March 1865	William Clark.
Engraving on metal - - - - - (*Communicated by Narcisse Guilbot and Pierre Heriter.*)	807	22nd March 1865	Richard Archibald Brooman.
Improved means of communication between the passengers, guard and engine driver of a railway train, part of which said improvements is also applicable for the prevention or detection of burglary.	847	25th March 1865	Alice Isabel Lucan Gordon.
Improvements in certain electric telegraphs, part of which invention is applicable to other purposes.	960	5th April 1865	Adam Millar.
Conducting electricity for communicating or transmitting signals and alarms in the event of burglary, fire, railway accidents and other purposes	975	6th April 1865	John Samuel Watson. Albert Horwood.
An improved mode of pointing or tapering the ends of metallic rods or wires, applicable to the manufacture of pins, needles and other articles where points or tapered ends are required. (*Communicated by Henry Cauderay.*)	976	6th April 1865	Edwin Henry Newby.
Electro-magnetic engines - - -	1012	8th April 1865	Siegmund Moore.
Improvements in and apparatus for communicating intelligence by means of electricity - -	1088	19th April 1865	Ralph Augustine Jones. Joseph Hedges.
Improvements in the construction of ships of war and floating batteries, part of which improvements are applicable to land fortifications.	1107	20th April 1865	Henry Caudwell.
Rotary magneto-electric machines - - (*Communicated by Mr. Henry Brandon.*)	1368	18th May 1865	Theodore Faucheux.
Production and application of electricity - -	1412	23rd May 1865	Henry Wilde.
Improvements in the treatment of clays and other materials with which they are mixed when used in the manufacture of china, porcelain, earthenware and other like wares, and in ornamenting or decorating china, porcelain, earthenware and other like wares.	1414	23rd May 1865	Alexander Hett.
Certain improvements applicable to spinning, weaving and knitting machines. (*stopping by electricity.*) (*Communicated by Charles Arthur Radiguet and Jean Adolphe Lecène.*)	1440	25th May 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRICITY, &c.—*continued.*			
Improvements in reproducing or producing copies of writings, drawings, music and other characters, and in preparing originals to be transmitted by electric telegraph. (*Communicated by Jacques Paul Lambrigot.*)	1457	27th May 1865	Richard Archibald Brooman.
Electro-magnetic clocks and other time-keepers (*Communicated by Jean Theodore Scholte.*)	1518	2nd June 1865	Richard Archibald Brooman.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Improved means of conducting electric currents through railway trains, and of actuating signals or alarums therein.	1609	14th June 1865	Andrew Edmund Brae.
Apparatus for preventing collisions and other accidents on railways. (*Communicated by Eugène Vincenzi.*)	1621	15th June 1865	William Clark.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*preparing plates of voltaic batteries.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Fire-arms	1805	7th July 1865	Robert Green. John William Heinke.
An improved method of obtaining induced currents of electricity from magnets and induction coils. (*Communicated by Jerome Kidder.*)	1979	31st July 1865	Alfred Vincent Newton.
Obtaining motive-power by heat (*igniting mixtures by electricity.*)	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Railway electrical signal apparatus	2016	3rd Aug. 1865	William Henry Preece.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mulholland.
Electric telegraphic apparatus (*Communicated by Louis Brequet.*)	2047	7th Aug. 1865	Louis John Crossley.
Improvements in the preparation or production of spongy metals, and in their applications. (*for electric batteries.*) (*Communicated by François Drivet.*)	2106	15th Aug. 1865	John Henry Johnson.
Constructing constant galvanic batteries for giving a signal or alarm in case of fire, and any other telegraphic purposes	2144	19th Aug. 1865	John Samuel Watson. Albert Horwood. Charles Brumfit.
A new or improved method of and apparatus for applying electro-magnetism as a break power on railways	2238	31st Aug. 1865	Edward Cowpe. David Hancock.
An improved indicator for electric bells, and a new battery manipulator combined, for ringing electric bells and other signals.	2421	22nd Sept. 1865	Walter Moseley.
An improved mode of generating steam (*by electric currents.*)	2604	10th Oct. 1865	John Sturgeon.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith.	2605	10th Oct. 1865	François Thierry Hubert.
Submarine telegraphy	2612	10th Oct. 1865	John Fletcher Wiles.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRICITY, &c.—*continued.*			
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - - (*passing a galvanic current through boilers to prevent corrosion.*)	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
The improvement of the means of and apparatus for laying submarine electrical telegraphic wires, lines, cables or other contrivances of a like sort.	2670	16th Oct. 1865	Reinhold Edward Kaulbach.
Improvements in the manufacture of chromates of ammonia and chromic acid, and in the preparation of nitrates of lime and baryta. (*from residues from electric batteries.*) (*Communicated by Félix Dehaut.*)	2702	19th Oct. 1865	William Clark.
Improvements in the construction and working of electric telegraphs, and in apparatus connected therewith, partly applicable to other purposes.	2762	26th Oct. 1865	Henry Wilde.
Manufacture of copper from copper ore - - -	2838	3rd Nov. 1865	James Balleny Elkington.
Apparatus for effecting communications between the passengers, guard and engine drivers in railway trains, and for giving notice to engine drivers in cases of accidents. (*Communicated by Samuel Cornwallis Amesbury.*)	2845	4th Nov. 1865	Henry Radcliffe.
A new appliance of an electro-magnetic apparatus to increase the adherence of locomotive engine wheels to the rails.	2977	20th Nov. 1865	Angelo Vescovali.
Apparatus for signalling on railways - - -	3032	25th Nov. 1865	Charles Frederick Whitworth.
Improvements in the applications of electricity for the testing and discharge of torpedo mines, either on land or at sea, and in the apparatus connected therewith. (*Partly communicated by Matthew Fontaine Maury.*)	3154	8th Dec. 1865	Nathaniel John Holmes.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - -	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
Obtaining motive power applicable to various useful purposes. (*by magnetism.*)	3260	16th Dec. 1865	Cecil Loftus Wellesley Reade.
Electro-magnetic engines - - - - (*Communicated by Laban Clarke Stuart.*)	3282	19th Dec. 1865	Alfred Vincent Newton.
Improvements in caps employed in spinning, and in the manufacture thereof.	3323	23rd Dec. 1865	Edward Clifton.
Manufacture of electric conductors insulated with india-rubber.	3347	27th Dec. 1865	Hugh Adams Silver.

For electric telegraphs, *see* "TELEGRAPHS."
For magnetic compasses, *see* "COMPASSES."
See also "Electro-plating."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ELECTRO-PLATING AND GALVANISING; DEPOSITING METAL BY ELECTRICITY.			
Treating products obtained when coating iron with zinc.	469	18th Feb. 1865	James Graham.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Preparation of iron, steel and alloyed metals, for electro-plating.	2521	2nd Oct. 1865	Thomas Allan.
Coating iron and steel with gold, silver, platinum or copper.	2592	7th Oct. 1865	Jacob Baynes Thompson.
Improvements in the construction and working of electric telegraphs, and in apparatus connected therewith, partly applicable to other purposes. (*electro-deposition of metals.*)	2762	26th Oct. 1865	Henry Wilde.
Improvements in caps employed in spinning, and in the manufacture thereof. (*electro-bronzing.*)	3323	23rd Dec. 1865	Edward Clifton.
EMBOSSING; PRODUCING RAISED PATTERNS.			
Improvements in producing and finishing photographs and photographic transparencies on paper and other suitable substances, and in the machinery employed therein - - - (*producing imitation cameos.*)	56	7th Jan. 1865	Barrowclough Wright Bentley. William Henry Bailey.
Fly or embossing presses - - -	208	24th Jan. 1865	James Bailey.
Manufacture of paper hangings - - -	322	6th Feb. 1865	Jabez Booth.
Engraving on metal - - - (*in relief.*) (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	807	22nd March 1865	Richard Archibald Brooman.
An improved manufacture of waterproof fabric - (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
Improvements in embossing presses to facilitate the operation of relief coloring on envelopes, note paper and other similar articles of stationery.	1224	2nd May 1865	Rest Fenner.
Mandrils for rollers such as are used for printing or embossing - - - - - -	1850	14th July 1865	David Fulton. John Fulton.
Certain improvements in envelope machines - (*Communicated by Thomas Veazie Waymoth, Henry Clay Berlin and George Jones.*)	1896	20th July 1865	Alfred Vincent Newton.
Ornamenting and surfacing veneers and other articles of wood.	2279	5th Sept. 1865	Thomas Thompson Ponsonby.
An improved method of ornamenting the surfaces of tiles.	2378	18th Sept. 1865	Henry Venables.
Engraving on metal - - - - (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	2388	19th Sept. 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EMBOSSING, &c.—*continued.*			
Manufacture of embossed wood - - - (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
Apparatus for embossing - - - -	3063	29th Nov. 1865	John Erskine Brown.
ENAMELLING, ENAMELS.			
Manufacture of enamelled glass to render it more useful in photographic art.	12	3rd Jan. 1865	William George Helsby.
An improved composition to be employed in the manufacture of bonnets and hats. (*for enamelling.*)	1442	25th May 1865	Jeffery Eustace.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*enamelling.*) (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
An improved composition for enamel, paint, varnish, cement or plaster. (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
Photographic surfaces and the compositions and process for preparing the same. (*opal picture enamel.*)	3190	11th Dec. 1865	Victor Moreau Griswold.
ENGRAVING AND ETCHING; PRODUCING SUNK DEVICES.			
Engraving upon crystal and silicious substances - (*Communicated by Charles Raphael Maréchal and Cyprien Marie Tessié du Motay.*	88	11th Jan. 1865	Richard Archibald Brooman.
Engraving on metal - - - - (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	807	22nd March 1865	Richard Archibald Brooman.
A new or improved compound spherical rest for ornamental turning lathes. (*or for engraving glass.*)	1441	25th May 1865	Thomas Hallam Hoblyn.
A new or improved method of producing a photographic image on the surface of copper or other metal plates. (*for engraving or etching.*)	1984	1st Aug. 1865	Francis Ross Wells.
Engraving on metal - - - - (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	2388	19th Sept. 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ENVELOPES.			
Apparatus for folding envelopes	479	20th Feb. 1865	John Davidson Nichol.
An improved fastener for envelopes	495	22nd Feb. 1865	Herbert Panmure Ribton.
Improvements in embossing presses to facilitate the operation of relief coloring on envelopes, note paper and other similar articles of stationery.	1224	2nd May 1865	Rest Fenner.
An improvement in the manufacture of envelopes	1416	23rd May 1865	Henry Gibbs.
Means of securing envelopes for enclosing letters and other papers.	1853	14th July 1865	Stevens Tripp.
Certain improvements in envelope machines (*Communicated by Thomas Veazie Waymoth, Henry Clay Berlin and George Jones.*)	1896	20th July 1865	Alfred Vincent Newton.
Improved machinery for the manufacture of bags and envelopes made of paper or other fibrous materials or woven or textile fabrics, either separately or combined.	2420	22nd Sept. 1865	Henry Rankin.
Securing or fastening envelopes	2430	23rd Sept. 1865	The Honourable Jane Elizabeth Tuchet.
An improved apparatus for bordering paper and envelopes.	2441	23rd Sept. 1865	Joseph Parkins.
Improvements in envelopes and in the construction thereof.	2794	30th Oct. 1865	Robert Girdwood.
Envelopes	3207	12th Dec. 1865	Henry Yates Thompson.
Envelopes	3301	21st Dec. 1865	Vincent Pétrément-Van-Leuf.
An improvement in envelopes	3331	23rd Dec. 1865	Frederic Jenner.
Apparatus for damping and gumming labels, stamps, envelopes and sheets of paper	3343	27th Dec. 1865	Joseph Benn. George Oswald Luckman.
EXCAVATING AND DREDGING; TUNNELS AND EMBANKMENTS.			
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes.	174	20th Jan. 1865	Louis Balma.
Formation of embankments, sea walls, breakwaters and other similar constructions. (*Communicated by Frederic Glover.*)	380	10th Feb. 1865	William Edward Newton.
Apparatus for propulsion by atmospheric pressure	598	3rd March 1865	Sir John Scott Lillie, Knight.
Dredgers	828	24th March 1865	William Simons. Andrew Brown.
Improved apparatus for ascertaining the state of sewers, tunnels, drifts or other subterranean work, part of which apparatus is applicable to levelling purposes.	849	25th March 1865	Richard William Barnes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EXCAVATING, &c.—*continued.*			
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
An improved mode of and apparatus for deepening the bottom or bed of rivers, canals, harbours or other similar places.	1017	10th April 1865	Charles François Gheerbrant.
Construction of ships or vessels or cars to float on water.	1083	18th April 1865	William Bedder.
Improvements in boring or excavating and blasting rocks and minerals, and in the treatment of the tools employed therein.	1192	28th April 1865	Julian Bernard.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Improved machinery for boring rocks and hard substances.	1778	5th July 1865	George Low.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor (*impure water from rivers.*)	1996	2nd Aug. 1865	James McEwan. William Neilson.
Machinery for excavating earth	2403	21st Sept. 1865	John Bostock Hulme.
An improved apparatus for and method of ascertaining the state of sewers, tunnels, drifts or other subterranean works, without descending thereinto, by means of the natural, artificial or magnesium light, part of which apparatus is applicable to levelling purposes.	2446	25th Sept. 1865	Richard William Barnes.
Improved machinery for cutting tunnels and sinking shafts	2940	15th Nov. 1865	Alexander Alison. Henry Hoskins.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*blocks of embankments.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes (*ventilating tunnels.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes. (*constructing tunnels.*)	3173	9th Dec. 1865	Alexander Doull.
Machinery for boring rock and other mineral (*Communicated by Carl Sachs.*)	3218	13th Dec. 1865	Frederick Bernard Dœring.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
EXTRACTS AND DECOCTIONS.			
Filtering apparatuses - - - - - (*extracts or decoctions.*)	249	28th Jan. 1865	Victor Burg.
A new or improved method or process and apparatus for obtaining the concentrated extract of hops, and for preserving the same from deterioration. (*Communicated by George Percy, Walter Wells, Charles Brown, John Mulford and John Maximilian Webb.*)	306	4th Feb. 1865	Joseph Rideal Webb.
Apparatus for extracting liquid from solid substances. (*Communicated by Lyman Smith.*)	486	21st Feb. 1865	William Edward Newton.
A mode of obtaining decoctions and apparatus for carrying the same into effect. (*Communicated by Benjamin Green Martin.*)	1227	2nd May 1865	Francis Wise.
Improvements in brewing, distillation, the production of vinegar, and the extract of malt and other grain.	1263	5th May 1865	Solomon Bennett.
Improvements in tanning and in the preparation of extracts to be used therein. (*Communicated by Emanuel Desiré Coëz.*)	2231	30th Aug. 1865	John Henry Johnson.
FABRICS; ELASTIC FABRICS.			
Vulcanizing compounds and vulcanized fabrics - (*Communicated by Simon Stevens.*)	176	20th Jan. 1865	Benjamin Franklin Stevens.
An improved manufacture of barège stuffs - - (*Communicated by Edmond Dirson.*)	440	16th Feb. 1865	William Edward Gedge.
Certain improvements in scarfs and in the manufacture of the same. (*Communicated by Leon de Moses Pariente.*)	491	22nd Feb. 1865	Isaac Pariente.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus employed therefor. (*see* "WEAVING.")	563	28th Feb. 1865	David Chalmers.
An improved method of treating, cleaning or preparing painted or other canvas, tarpaulins and dirty cotton waste, so as to render the same suitable to be used for household and other purposes for which they may be applicable. (*for towels, knife-cloths, dusters, &c.*)	752	17th March 1865	William Maurice Williams.
Machinery or apparatus employed in the manufacture of cloth and other fabrics - - - (*see* "WEAVING.")	821	23rd March 1865	Joseph Lees. Moses Mellor.
A new or improved method of conditioning or preparing fibres, threads and fabrics, and apparatus to be employed therein. (*Communicated by Stanislas Vigoureux.*)	1169	26th April 1865	Richard Archibald Brooman.
Manufacture of a certain description of woven fabric called "turkish towelling."	1281	9th May 1865	James Gorton.
An improved woven fabric - - - - (*towelling.*)	1316	12th May 1865	Thomas Smith. Henry James.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FABRICS, &c.—*continued.*			
Ornamentation of fabrics and leather - - (*Communicated by Miss Nathalie Kolb.*)	1389	19th May 1865	William Clark.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus connected therewith. (*see* "WEAVING.") (*Communicated by David Chalmers.*)	2117	16th Aug. 1865	Flora M'Dougall Chalmers.
Improvements in the manufacture of velvet and in the apparatus employed therein. (*see* "DYEING.") (*Communicated by Messieurs Fraisse-Brossard fils jeunes.*)	2204	28th Aug. 1865	Henri Adrien Bonneville.
Improvements in certain knitted fabrics and in the means for producing the same.	2718	21st Oct. 1865	Thomas Webb.
Manufacture of endless cloths - - -	2966	17th Nov. 1865	James Heywood Whitehead.
Manufacture of shawls and similar ornamental weavings.	3145	6th Dec. 1865	William Houghton Clabburn.
Manufacture of bed quilts, table and toilet covers -	3255	16th Dec. 1865	Thomas Jones. Joseph Buckley.
Improvements in the manufacture of trimmings and in the machinery employed therein. (*for textile fabrics.*)	3320	23rd Dec. 1865	William Smith.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for counterpanes or quilts.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
FEATHERS; ARTIFICIAL FEATHERS AND FLOWERS.			
Dying the herbs and straw used in the manufacture of straw hats and artificial flowers, or other fancy articles.	463	18th Feb. 1865	Emile Carchon.
Improved contrivances to facilitate the arrangement of flowers and leaves. (*and artificial flowers.*)	1187	28th April 1865	Thomas Charles March.
A new manufacture of or improvement in ornaments for personal wear.	1779	5th July 1865	Harry Emanuel.
Dyeing and printing fabrics and yarns, and animal or mixed animal and vegetable substances.	2327	11th Sept. 1865	John Lightfoot.
Purification and preparation of animal and vegetable wax, stearine, spermaceti, paraffine and other solid, waxy or fatty substances. (*for flowers.*)	2768	27th Oct. 1865	Scipion Sequelin.
Bleaching feathers - - - - - (*Communicated by Adolphe Pièrre Viol and Cèsaire Pierre Duflot.*)	2987	20th Nov. 1865	William Clark.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for flowers, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FENCES AND RAILWAYS.			
Certain improvements in standards for strained wire or rod fencing.	76	10th Jan. 1865	William Bayliss.
New or improved machinery for the manufacture of wire and other netting. (*Communicated by Edmond Paul Henri Gondouin.*)	360	8th Feb. 1865	Richard Archibald Brooman.
Constructing strained wire fences - - -	592	2nd March 1865	Robert Johnson.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles. (*railing and baluster bars.*)	699	13th March 1865	James Atkins.
An improved socket for fencing and telegraph posts	775	20th March 1865	Arthur Giraud Browning.
Ornamental fences and baskets to contain flowers and other articles.	1806	7th July 1865	William Goulding.
Manufacture of bricks and other analogous materials. (*for balustrades, &c.*)	2571	6th Oct. 1865	Victor Jean Baptiste Germaix.
Hurdles for fencing or dividing grass and other lands and for other like purposes.	2629	12th Oct. 1865	Robert Longdon.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating fences.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
FIBRES (*Obtaining from Plants, Recovering from Manufactured Goods, Separating, Cleansing, Packing.*)			
Machinery for ginning cotton - - -	44	6th Jan. 1865	Benjamin Dobson. William Slater. Robert Halliwell.
Machinery for opening and carding cotton and other fibrous materials. (*separating fibres.*)	90	11th Jan. 1865	Robert Tempest.
Machinery or apparatus for ginning and cleaning cotton and other fibrous materials - - (*Partly communicated by Albert Westfeld.*)	191	23rd Jan. 1865	Christopher Brakell. William Hoehl. William Günther.
Machinery for thrashing, beating, and dressing flax	231	26th Jan. 1865	William Creasy.
Cotton gins - - - - - - -	248	28th Jan. 1865	Benjamin Dobson. William Slater.
Machinery or apparatus for washing wool and other fibrous materials.	251	28th Jan. 1865	John Petrie, jun^{r}.
An improved system of drying wool, cotton and other fibrous materials, and in the machinery or apparatus connected therewith. (*Communicated by Carl Bes and Louis Boettcher.*)	255	28th Jan. 1865	Edward Thomas Hughes.
Apparatus for breaking and scutching flax or similar fibrous materials.	277	1st Feb. 1865	John Gray.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Machinery for washing and drying wool and other fibrous materials	281	1st Feb. 1865	John M^{c}Naught. William M^{c}Naught, jun^{r}.
Machinery for breaking the stems of and preparing flax, hemp and other fibrous substances. (*Communicated by Auguste Henri Leveau.*)	336	7th Feb. 1865	Henry Bernoulli Barlow.
Separating wool from refuse mixed fabrics and materials.	511	23rd Feb. 1865	Samuel Saville.
Cotton gins (*Communicated by François Durand.*)	531	24th Feb. 1865	Edmond Paul Henri Gondouin.
Application and utilization of certain materials suitable for the manufacture of paper. (*Communicated by Joachim John Monteiro.*)	703	13th March 1865	John Webb.
Apparatus for washing wool, hair and other fibre	808	22nd March 1865	George Edmund Donisthorpe.
Presses for cotton and wool	848	25th March 1865	William Miller.
Cotton gins	851	25th March 1865	William Richardson.
Separating fibre from vegetable materials containing the same. (*Communicated by Antonio Meucci.*)	958	4th April 1865	George Tomlinson Bousfield.
Treating wool in order to cleanse it from burrs, seeds and other foreign matters	1042	12th April 1865	Henry Sikes. George Jarmain.
Apparatus for disintegrating vegetable and animal substances.	1168	26th April 1865	François Dominique Pierre Jacques Cabasson.
A new or improved method of conditioning or preparing fibres, threads and fabrics, and apparatus to be employed therein. (*Communicated by Stanislas Vigoureux.*)	1169	26th April 1865	Richard Archibald Brooman.
Hydraulic presses for compressing cotton and other substances	1254	5th May 1865	George Peel, jun^{r}. Isaac Mason.
Certain improvements in hydraulic presses for packing cotton and other materials or substances, and in the boxes for containing the same	1280	9th May 1865	Edward Taylor Bellhouse. William John Dorning.
Presses used for pressing cotton, wool, hay and fibrous materials.	1423	24th May 1865	George Ashcroft.
Machinery for separating or sorting fibres and filaments of different lengths, and forming them into a lap or fleece. (*see* "SPINNING.") (*Communicated by Charles Simon.*)	1430	25th May 1865	Richard Archibald Brooman.
Improvements in treating fibrous materials and textile fabrics, and in producing soap. (*Communicated by Leon Pasquier and Alphonsine Julie Dumont.*)	1443	25th May 1865	Michael Henry.
Machinery or apparatus for washing wool and other fibrous materials.	1500	31st May 1865	John Petrie, jun^{r}.
An improvement in the preparation of vegetable fibre for the manufacture of paper.	1634	17th June 1865	William Deltour.
Manufacture of hats and other felted goods and fabrics. (*Communicated by Edwin Dodd M^{c}Cracken, James M^{c}Cracken, Charles Edward M^{c}Cracken, John Adams Southmayd and Robert Warner Southmayd.*)	1707	26th June 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Cotton gins - - - - - - (*Communicated by Frederick Tabor Ackland, Henry George Mitchell and Mustapha Mustapha.*)	1714	27th June 1865	John Henry Johnson.
Treating and preparing flax for scutching - -	1828	10th July 1865	George Firmin.
Means or apparatus for opening and straightening wool, cotton and other fibres.	1865	18th July 1865	Joshua Thornton.
Processes and machinery for producing fibres suitable for being spun, from rags or remnants of woven or other textile fabrics made of silk, wool, cotton or other fibrous materials.	1881	19th July 1865	Henry Ernest Gilles.
An improved cotton press - - - - -	1916	22nd July 1865	Samuel Boyd.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes.	1952	27th July 1865	Henry Sherwood.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - - - (*flax, hemp, cotton, wool, hair, &c.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Improvements in reducing vegetable fibre to pulp, and in machinery employed therein. (*see* "RAGS.")	2002	2nd Aug. 1865	William Wharton Burdon.
Machinery or apparatus for washing wool and other fibrous materials.	2039	5th Aug. 1865	John Petrie, jun^{r}.
Process of and machinery for cleaning china grass and flax, and removing therefrom the resinous and woody matters that adhere to the useful fibres of the plant.	2078	10th Aug. 1865	Joseph Faren.
Treating of china grass or other vegetable fibrous substances - - - - - -	2114	16th Aug. 1865	John Ingham. John Culpan.
Manufacture of the straw of rye and other straws and grasses, into fibre, and utilising the refuse.	2171	23rd Aug. 1865	Edward Henry Cradock Monckton.
Mode of treating the roots of the lucerne plant, for the purpose of manufacturing paper, pasteboard, fabrics and ropes therefrom. (*extracting the fibres.*) (*Communicated by John Peter Caminade.*)	2523	2nd Oct. 1865	Charles Denton Abel.
Cotton presses - - - - - - (*Communicated by Samuel Boyd.*)	2722	21st Oct. 1865	Clotworthy Boyd.
Process of and machinery for preparing flax, hemp, jute, china grass and other analagous vegetable fibres for spinning.	2725	21st Oct. 1865	James Hill Dickson.
Improvements in machinery for compressing cotton, wool and other materials, for the economy of transit, which said improvements more particularly relate to the more expeditious filling of the box of the press and fastenings for bales.	2837	3rd Nov. 1865	James Jennings M^{c}Comb.
Treating vegetable fibres used in the manufacture of paper and other similar substances made from pulp. (*Communicated by Louis Horst.*)	2882	8th Nov. 1865	Godfrey Anthony Ermen.
An improved machine for taking off the fibre from cotton seed and cleaning it.	2956	17th Nov. 1865	William Henry Cope.
Cotton gins - - - - - -	2984	20th Nov. 1865	William James Burgess.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIBRES, &c.—*continued.*			
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
Improvements in the process of treating materials for the manufacture of paper and other similar textile fabrics, and in apparatus for the same. (*Communicated by Robert Hanham Collyer.*)	3067	29th Nov. 1865	Charles Stuart Baker.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap. (*silk cocoons, wool, &c.*)	3107	4th Dec. 1865	Leopold Joseph Bouchart.
An improved method in the production of fibre from various fibrous plants and animal products.	3112	4th Dec. 1865	James Steart.
Machinery for opening and cleaning cotton and other fibrous substances.	3120	5th Dec. 1865	Samuel Wright Wilkinson.
Machinery or apparatus for cleaning and ginning cotton and other fibrous substances.	3137	6th Dec. 1865	George Macdonald.
A new or improved method of preparing esparto, alpha or mogador grasses or other similar vegetable substances, for spinning, weaving, and for substitution for hair and for other fibres now in use - - - - - -	3156	8th Dec. 1865	Oliver Maggs. George Hedgecombe Smith.
Machinery for opening and cleaning cotton and other fibrous substances - - -	3233	14th Dec. 1865	Thomas Ridley Hetherington. Samuel Thornton.
Improved apparatus for manufacturing paper pulp -	3245	14th Dec. 1865	William Alfred West.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes.	3318	22nd Dec. 1865	John Alexander Cooper.
Machinery used in tearing silk and other fabrics and rags - - - - - -	3356	28th Dec. 1865	Sidney Collins. Charles Collins.
Means or apparatus for extracting wool from cotton and other vegetable substances contained in mixed fabrics - - - -	3378	30th Dec. 1865	Arthur Knowles. James Knowles. Joshua Barraclough.
See also "SPINNING (*Opening*)."			
FILES AND CLIPS; FORCEPS.			
An "improved clothes fastener" that may also be used as a letter clip.	268	31st Jan. 1865	James William Gill.
Certain improved means for holding, attaching or suspending fancy articles as exposed in bazaars, show rooms or shop windows, for sale, as well as the providing of means for portably fitting or holding the price ticket to such articles, a modification of which arrangement is also applicable for holding and filing papers, or other purposes	505	23rd Feb. 1865	William Westbury. Thomas Wathen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FILES, &c.—*continued.*			
Manufacture of letter clips, book markers, paper knives, and clips for suspending stationery, drapery and pictures, and for other such like purposes - - - - - -	933	3rd April 1865	Thomas Corbett. Robert Harrington
Letter clips or paper holders - - -	1354	16th May 1865	Henry Edwin Dixon.
Files or holders for holding letters and music, and for other like purposes.	2097	14th Aug. 1865	Frederick Brampton.
Portfolios and paper files - - - - (*Communicated by Henry Tillinghast Sisson.*)	2468	26th Sept. 1865	George Tomlinson Bousfield.
FILES AND RASPS.			
Manufacture of files - - - - (*Communicated by Moses Griffin Crane.*)	412	14th Feb. 1865	William Boxer Newbery
An improved machine for shaping file or other "blanks" by means of dies fitted into vibrating jaws.	616	4th March 1865	Thomas Turton.
Improvements in steam hammers applicable to the manufacture of files, to welding flyers of cotton machinery and to other purposes.	641	7th March 1865	James Dodge.
Machinery or apparatus for rolling, shaping or forging metals. (*blanks for files.*)	701	13th March 1865	Robert Marsden.
Heating preparatory to and for the purpose of hardening or tempering of knives, files, tools and all other descriptions of cutlery or hardware usually subject to the process of hardening or tempering.	747	17th March 1865	Henry Wethered.
File cutting machinery - - - - (*Communicated by Alfred Weed.*)	885	29th March 1865	William Brookes.
Machinery for cutting files - - - -	1013	8th April 1865	Thomas Turton.
Heating files and file blanks - - -	1020	10th April 1865	William Brooks.
File cutting machines - - - -	1172	26th April 1865	James Dodge.
Certain improvements in machinery or apparatus for rolling or shaping metallic articles of irregular form, such as "file-blanks" and similar articles.	1190	28th April 1865	Edward M'Nally.
Machinery for cutting files - - - - (*Communicated by William Van Anden.*)	1792	6th July 1865	William Clark.
File cutting machines - - - -	2548	4th Oct. 1865	John Dodge.
Means of renewing the teeth of worn out files -	2887	8th Nov. 1865	Joseph Bernard Oscar Lassus.
Machinery for cutting files - - - (*Communicated by Aaron Chambers.*)	3165	8th Dec. 1865	George Tomlinson Bousfield.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FILTERING, PURIFYING AND CLARIFYING LIQUIDS; FILTERS; DISTILLING WATER, SOFTENING WATER.			
Filtering apparatuses - - - -	249	28th Jan. 1865	Victor Burg.
Filters - - - - - - (*Communicated by Gabriel Planche.*)	467	18th Feb. 1865	Richard Archibald Brooman.
Manufacture of ink - - - - - (*Communicated by Josiah Vincent Lavers.*)	836	24th March 1865	William Edward Newton.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating charcoal filters.*)	864	27th March 1865	Ferdinand Le Roy.
An improved process for purifying water - -	1242	3rd May 1865	Carl Gustav Lenk.
Preparation of materials to be used as substitutes for animal charcoal - - - - - (*for filtering water.*)	1409	22nd May 1865	Richard Müller. Arthur Thomas Weld. John Folliott Powell.
Purifying paraffine - - - - -	1586	12th June 1865	John Edgar Poynter.
Improvements in distilling and rectifying, and in the apparatus employed therein, parts of which improvements are applicable to steam generators.	1662	20th June 1865	Evariste Vignier.
Preventing the incrustation of steam-boilers - - (*filtering the feed water.*) (*Communicated by Charles James Eames.*)	1734	29th June 1865	William Edward Newton.
An improvement in refining petroleum and other hydrocarbon oils. (*Communicated by Robert Augustus Chesebrough.*)	1980	31st July 1865	Alfred Vincent Newton.
Treatment of hydrocarbon or paraffin oils - -	2008	3rd Aug. 1865	John William Perkins.
Apparatus for filtering sugar and other liquid solutions - - - - - -	2023	4th Aug. 1865	Jean Adolphe Leon. George Tessimond. John Kissack.
Purifying water - - - - -	2415	21st Sept. 1865	Alfred Bird.
An improved liquid compound for purifying sea and other waters. (*Communicated by Léandre Danjou.*)	2646	13th Oct. 1865	Richard Archibald Brooman.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - - (*extracting salt from water.*)	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
An improved process for purifying and preserving water.	2674	17th Oct. 1865	Carl Gustav Lenk.
Improvements in apparatus for obtaining fresh water from salt and impure water, also applicable for ventilating purposes.	2953	17th Nov. 1865	Samuel Hazard Huntly.
Improvements in distilling and in relieving distilled and other liquids from gases mechanically mixed therewith. (*obtaining pure water from salt water.*)	3351	27th Dec. 1865	Norman Willis Wheeler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FINISHING, DRESSING, SINGEING, SHEARING, FOLDING AND PRESSING WOVEN FABRICS, YARNS, &c.			
Apparatus for ironing and dressing woollen and other tissues. (*Communicated by André Lyon.*)	146	18th Jan. 1865	François Paul Henri Cahuzac.
Facing woollen cloth and other textile fabrics -	178	20th Jan. 1865	John Snell. William Renton.
Machinery or apparatus for folding fabrics on to cardboards, for the purpose of hot pressing.	278	1st Feb. 1865	Arthur Freeman.
Improvements in the ventilation of pressing irons heated by gas, and for preventing the condensation of the vapour in the tubes or flues leading therefrom.	350	7th Feb. 1865	Samuel Egan Rosser.
An improved winder and arrangement for winding and putting up velvet and other ribands - -	389	11th Feb. 1865	Theodor Anton Verkruzen. Moritz Anton Verkruzen.
An improved apparatus for shearing and burling all sorts of woven fabrics. (*Communicated by Calixte Hippolyte Jean Pierre Damaye and Jean Compagnie.*)	517	24th Feb. 1865	William Edward Gedge.
Certain improvements in mechanism or apparatus for "blocking," rolling and measuring calico, linen, flannel or other woven fabrics - -	536	25th Feb. 1865	Thomas Dronsfield. Thomas Edwin Jones. John Ashton.
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads. (*and finishing.*)	718	14th March 1865	Longin Gantert.
Apparatus used in the winding and rewinding of silk and other fabrics.	921	1st April 1865	William Kilbey.
Improvements in wringing-machines, parts of which are applicable to the construction of rollers. (*Communicated by Stephen Wing and Henry Holly.*)	922	1st April 1865	Henry Lewis.
Certain improvements in dyeing or printing upon the fabric known as "sail cloth."	1006	8th April 1865	James Isherwood.
Machinery for finishing yarns or threads - -	1019	10th April 1865	Robert Fergusson. Walter Ralston.
Clamps for stretching frames and other purposes -	1039	12th April 1865	Henry Bridson.
Machinery for folding fabrics for pressing - -	1057	13th April 1865	William Speakman Yates.
Machinery for folding and carding lace or light fabrics.	1238	3rd May 1865	Thomas Wright Roe.
Means and apparatus used for stretching woven fabrics and other materials. (*Communicated by Jules Ducommun.*)	1239	3rd May 1865	William Clark.
Improvements in treating fibrous materials and textile fabrics, and in producing soap. (*Communicated by Leon Pasquier and Alphonsine Julie Dumont.*)	1443	25th May 1865	Michael Henry.
An improved plain or graduated gophering or puffing and pressing machine - - - (*blonde net, &c.*)	1444	26th May 1865	Charles Cotton. Francis Anderson. Daniel Booker.
Improved machinery for raising the pile of woven or other fabrics. (*Communicated by Pierre Nos d'Argence.*)	1514	1st June 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FINISHING, &c.—*continued.*			
Circular pressing machines for finishing woven fabrics.	1717	28th June 1865	William Ingham.
Machinery for cutting fustian and like fabrics -	1814	8th July 1865	Benoni Collins. John Butterfield.
Machinery or apparatus for folding fabrics on to cardboards or metallic plates, for the purpose of hot pressing - - - - -	1909	21st July 1865	William Speakman Yates. Arthur Freeman.
Means or apparatus for cutting or shearing the nap or pile of nap or pile fabrics - - (*producing patterns.*)	2547	4th Oct. 1865	William Blakey Stocks. James Whitwam. William Blakey.
Machinery for folding fabrics and inserting cardboard or other substances between the folds.	2550	5th Oct. 1865	Richard Tonge.
Apparatus for steeping or treating paper pulp and other matters subjected to the action of alkalies. (*fabrics.*) (*Communicated by Messrs. Neyret, Orioli and Fredet.*)	2574	6th Oct. 1865	William Clark.
Apparatus for mangling and callendering - -	2597	9th Oct. 1865	Robert Walmsley.
Heating calender bowls and other cylinders or rollers.	2636	12th Oct. 1865	William Mather.
Apparatus for finishing textile fabrics - -	2647	13th Oct. 1865	William Robertson. James Guthrie Orchar.
Improvements in calendering and finishing woven fabrics, and in apparatus employed therein.	2769	27th Oct. 1865	Edwin Heywood.
Dressing lace or other fabrics - - -	2827	2nd Nov. 1865	William Ebenezer Dobson.
Machinery for measuring woollen and other cloths -	2862	6th Nov. 1865	William Hebdon.
An improved apparatus for shrinking cotton, woollen and other textile fabrics.	3020	24th Nov. 1865	Samuel Colley Salter.
An improved apparatus for stretching and rolling fabrics for dyeing. (*Communicated by Messieurs Jules Weber and Victor Jacques.*)	3059	29th Nov. 1865	Hector Auguste Dufrené.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*shaving or finishing when woven.*) (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap.	3107	4th Dec. 1865	Leopold Joseph Bouchart.
A new or improved press for pressing shawls, clothes, table linen, and various other fabrics, manufactured articles and substances requiring pressure.	3124	5th Dec. 1865	William Bryan Masters.
Apparatus to be employed in stiffening fabrics -	3209	12th Dec. 1865	Robert Howarth.
The conversion of the refuse of starch and gumaline into useful gumaline. (*used for dressing lace.*)	3262	18th Dec. 1865	William Ebenezer Dobson.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for stiffening textile fabrics.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee
FINISHING, &c.—*continued.*			
Apparatus for expanding or keeping fabrics straight in passing into, "through" or out of any machine, or over, under or upon rollers - *See also* "DRYING."	3375	29th Dec. 1865	William Edleston. John Schofield.
FIRE-ARMS, GUNS, ORDNANCE, GUN CARRIAGES, TARGETS, RIFLE PRACTICE.			
Stoppers for bottles, jars, vessels and tubes, also for ordnance and fire-arms.	27	4th Jan. 1865	Nathan Thompson.
An improved method of constructing ordnance or cannon of wrought iron.	54	6th Jan. 1865	Horatio Ames.
Improvement in breech-loading fire-arms - - (*Communicated by Wilhelm Gerhardt.*)	78	10th Jan. 1865	Adolphe Meyer. Moritz Meyer.
Breech-loading fire-arms - - - -	106	12th Jan. 1865	George Henry Daw.
Breech-loading fire-arms - - - -	124	14th Jan. 1865	William Ansell.
Breech-loading fire-arms - - - - (*Communicated by Walter Fitzgerald.*)	138	16th Jan. 1865	George Tomlinson Bousfield.
Breech-loading fire-arms - - - -	139	16th Jan. 1865	James Simeon Edge the elder.
Breech-loading fire-arms - - - - (*Communicated by Philo Remington, Samuel Remington and Eliphalet Remington.*)	152	18th Jan. 1865	William Edward Newton.
Improvements in fire-arms and in ammunition for the same.	188	21st Jan. 1865	Jacob Snider, junior.
Manufacturing ordnance and gun barrels of cast steel or of homogeneous iron - - -	213	25th Jan. 1865	John Marshall. Henry Mills.
Breech-loading fire-arms - - - -	247	28th Jan. 1865	Samuel Trulock. Richard Trulock. William Trulock.
Breech-loading fire-arms and cartridges - - (*Communicated by Charles Claude Etienne Minié.*)	253	28th Jan. 1865	William Clark.
Improvements in breech-loading guns and in priming and capping the same - - -	265	30th Jan. 1865	Cecil Henry Russell. Joseph Needham.
Improvements in armour-plated ships, forts, gun carriages and works of defence, and in fastenings to be employed therein.	292	2nd Feb. 1865	Charles Lungley.
Improvements in the manufacture of ordnance and other like castings and in the apparatus employed therein, also in carriages or moulds for the same. (*Communicated by William Jones*)	295	2nd Feb. 1865	John Henry Johnson.
Breech-loading fire-arms - - - -	299	3rd Feb. 1865	Thomas Joyce.
Certain improvements in revolving fire-arms and cartridges for the same.	309	4th Feb. 1865	Stephen Wells Wood.
Breech-loading fire-arms - - - -	358	8th Feb. 1865	Edward Lindner.
Locks for fire-arms - - - -	368	9th Feb. 1865	John Parker Lindsay.
Certain improvements in breech-loading ordnance -	372	10th Feb. 1865	Alfred Krupp.
Improvements in breech-loading fire-arms and in cartridges for breech-loading fire-arms.	421	14th Feb. 1865	Johann Von der Poppenburg.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Breech-loading fire-arms	424	14th Feb. 1865	James Purdey.
Fire-arms (*Communicated by Charles Edward Sneider.*)	425	14th Feb. 1865	Benjamin Thompson.
Breech-loading fire-arms	506	23rd Feb. 1865	William Henry Aubin.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*gun carriage.*) (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Cap carriers for fire-arms	519	24th Feb. 1865	Henry Everard Clifton. Saul Myers. Abraham Hoffnung.
A magazine repeating and breech-loading rifle (*Communicated by Joshua Gray.*)	540	25th Feb. 1865	Edward Henry Eldredge.
Rocket guns and rocket harpoons and apparatus to be used therewith, for the capture of whales and other purposes	550	27th Feb. 1865	Thomas Welcome Roys. Gustavus Adolphus Lilliendahl.
Breech-loading fire-arms (*Communicated by John Webster Cochran.*)	642	8th March 1865	Frederick Tolhausen.
Revolving fire-arms (*Communicated by Sebastien Amédée Noël and François Gueury.*)	659	9th March 1865	William Clark.
Improvements in breech-loading fire-arms and in cartridges for breech-loading fire-arms. (*Partly communicated by William Montgomery Storm.*)	708	14th March 1865	Francis Augustus Braendlin.
Breech-loading fire-arms	711	14th March 1865	Richard Archibald Brooman.
Breech-loading fire-arms	772	20th March 1865	John Thomas Cook. John Thomas Cook the younger.
Improvements in vessels of war and in ordnance	783	21st March 1865	William Vincent Greene.
Fire-arms	790	21st March 1865	Richard Jordan Gatling.
Improvements in the construction of fire-arms and in cartridges for the same.	800	22nd March 1865	Alfred Pierre Tronchon.
Improvements in stoppers for bottles, jars or other vessels, the same being applicable to fire-arms and ordnance.	814	23rd March 1865	Charles Henry Crowe.
Gun locks	838	24th March 1865	Daniel Arnold.
Improvements in fire-arms and in apparatus for extracting cartridges and cartridge cases therefrom.	969	5th April 1865	Charles William Lancaster.
Breech-loading fire-arms	987	7th April 1865	Andrew Muir.
A new or improved apparatus for supporting and steadying the arm in rifle shooting.	1014	8th April 1865	Jean Baptist Hausman.
Improvements in fire-arms, and in cartridges to be used therewith and with other fire-arms.	1046	12th April 1865	Thomas Jefferson Mayall.
Breech-loading fire-arms	1071	17th April 1865	Alexander Henry.
Breech-loading fire-arms (*Communicted by Henry Oliver Peabody.*)	1092	19th April 1865	George Tomlinson Bousfield.
Certain improvements in breech-loading fire-arms (*Communicated by Monsieur Marie Joseph Eugene du Liège de Puychaumeix.*)	1136	24th April 1865	Peter Armand Le Comte de Fontaine Moreau.
Breech-loading needle guns for military and other purposes.	1146	24th April 1865	John Frederik Christian Carle.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Improvements in breech-loading fire-arms and ordnance, and in projectiles.	1177	27th April 1865	James Carr.
Breech-loading guns - - - - -	1197	29th April 1865	Lewis Wells Broadwell.
Fire-arms - - - - - - -	1207	1st May 1865	Emile Della-Noce.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metals. (*for founding guns.*)	1208	1st May 1865	Henry Bessemer.
An improvement in igniting the fuses of shells - (*Communicated by Thomas Taylor.*)	1211	1st May 1865	John Blackie, jun^{r}.
Breech-loading fire-arms - - - - -	1276	9th May 1865	Stephen Law. Joseph Law.
Breech-loading fire-arms and cartridges - -	1289	9th May 1865	John Charles Conybeare.
Breech-loading fire-arms - - - - -	1293	10th May 1865	Patrick O'Hagan.
Improvements in breech-loading fire-arms, and in cartridges for breech-loading fire-arms.	1308	11th May 1865	Joseph Rock Cooper.
Improvements in breech-loading fire-arms and ordnance, and in apparatus connected therewith.	1328	13th May 1865	Thomas Craig.
Improvements in the mode of rifling muzzle-loading cannon, and in projectiles for the same. (*Communicated by John Seipel.*)	1332	13th May 1865	William Spence.
Certain improvements in the manufacture of gun barrels and ordnance - - - - -	1341	15th May 1865	William Deakin. John Bagnall Johnson.
Apparatus to be used with breech-loading fire-arms and ordnance. (*see* "CARTRIDGES.")	1355	16th May 1865	Pierre Camille Lafont.
Improvements in breech-loading fire-arms, and in cartridges and bayonets for breech-loading fire-arms. (*Communicated by Charles Rochaz.*)	1356	16th May 1865	Richard Archibald Brooman.
Breech-loading fire-arms - - - - -	1382	19th May 1865	Samuel Ebrall.
A new kind of casing intended to protect the stock and lock of fire-arms, with guiding caps to take aim.	1403	22nd May 1865	André Gustave Bigorie.
Fire-arms - - - - - - -	1433	25th May 1865	Edward Paton.
Improvements in breech-loading fire-arms and ordnance, and in cartridges for breech-loading fire-arms.	1436	25th May 1865	Thomas Wilson.
Improvements in breech-loading fire-arms and in sights for rifles.	1461	27th May 1865	Thomas Bissell.
Certain improvements in the formation and construction of metallic vessels, chambers or hollow cylinders used in hydraulic apparatus, cannon or heavy guns, and for like purposes.	1505	1st June 1865	Herbert Allman.
Breech-loading fire-arms - - - - -	1525	3rd June 1865	Alfred Lancaster.
Improvements in breech-loading fire-arms and in metallic cartridge cases for the same. (*Communicated by James Ingersoll Day.*)	1546	6th June 1865	George Haseltine.
Central fire breech-loading fire-arms - - -	1562	8th June 1865	Joseph Rock Cooper.
Improvements applicable to breech-loading fire-arms	1651	20th June 1865	Abraham Colley.
Manufacturing gun barrels and tubes of cast steel and homogeneous iron.	1738	30th June 1865	Henry Powell Tipper.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Improvements in breech-loading fire-arms and in cartridges to be used therewith. (*Communicated by Pierre Didier Jardinier.*)	1750	1st July 1865	William Edward Newton.
An improved method of training guns - - -	1799	7th July 1865	Henry Duncan Preston Cunningham.
Carriages for breech-loading ordnance - -	1801	7th July 1865	Fischer Alexander Wilson.
Fire-arms - - - - - - -	1805	7th July 1865	Robert Green. John William Heinke.
Improvements in portable charge holders for breech-loading guns, whether single or doubled barrelled, as also in the means of manufacturing the said holders and in exploding the charge.	1888	20th July 1865	Charles Rosson.
Improvements in fire-arms and in cartridges for the same.	1889	20th July 1865	William Tranter.
Improvements in breech-loading fire-arms and in the charges and projectiles to be used therewith.	1894	20th July 1865	William La Penotière.
An improved method of working guns - -	2014	3rd Aug. 1865	Henry Duncan Preston Cunningham.
Revolver pistols - - - - - - (*Communicated by Pierre Drivon and Claude Joseph Biron.*)	2027	4th Aug. 1865	Henri Adrien Bonneville.
Improvements in breech-loading fire-arms and in revolving fire-arms, and in cartridges.	2030	4th Aug. 1865	Thomas William Webley.
An improvement in gun wipers - - - (*Communicated by Hiram Berdan, Charles Lawrence Perkins and Walter Hayes Burns.*)	2031	4th Aug. 1865	Alfred Vincent Newton.
Fire-arms - - - - - - -	2050	7th Aug. 1865	William Castle Dodge.
Breech-loading fire-arms - - - -	2063	9th Aug. 1865	Stephen Law. Joseph Law.
Improvements in revolving fire-arms, in projectiles and cartridges.	2108	15th Aug. 1865	James Broun.
Breech-loading fire-arms - - - -	2151	19th Aug. 1865	William Soper.
Improvements in the manufacture of steel iron and metal suitable for bearings, and in apparatus for the same. (*gun metal.*)	2175	24th Aug. 1865	William Colborne Cambridge.
Breech-loading revolvers - - - -	2210	28th Aug. 1865	Prosper Polain.
Improvements in the construction of fire-arms, such improvements being also applicable to the alteration and adaptation of parts of existing fire-arms.	2275	5th Sept. 1865	Jacob Snider, junior.
Treating, working or manipulating cast steel, for the manufacture of wheel tires, armour plates or other articles requiring great hardness and tensile strength. (*hoops for ordnance.*)	2277	5th Sept. 1865	Julien Grand.
Mounting and working guns in ships, forts and batteries.	2306	8th Sept. 1865	John Walker.
Breech-loading fire-arms and cartridges - -	2345	13th Sept. 1865	Frederic Waller Prince.
Improvements in the manufacture of tubes for gun barrels and other purposes, parts of which improvements are also applicable to the manufacture of rods or bars, and to the rifling of ordnance and fire-arms.	2351	14th Sept. 1865	Gustavus Palmer Harding.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
An improved form of rifling for fire-arms and ordnance.	2354	14th Sept. 1865	Wilmot Burrows Edward Ellis.
An improved construction of projectile - - - (*and firing.*) (*Communicated by Orazio Luge.*)	2381	18th Sept. 1865	Alfred Vincent Newton.
Improvements in breech-loading fire-arms and in cartridges to be used therewith. (*Communicated by Hiram Berdan.*)	2438	23rd Sept. 1865	William Edward Newton.
Breech-loading fire-arms - - - - (*Communicated by Samuel Norris.*)	2452	25th Sept. 1865	Alexander Prince.
Fire-arms and ordnance - - - - - (*Communicated by Anthony Arthur Voruz.*)	2466	26th Sept. 1865	William Edward Newton.
Improvements in rifling fire-arms and in missiles or projectiles used in such, and in the machinery for the production of these improvements.	2488	28th Sept. 1865	William Ellis Metford.
Improvements in breech-loading guns and in projectiles and cartridges.	2512	30th Sept. 1865	Edward Lindner.
Breech-loading fire-arms - - -	2553	5th Oct. 1865	John Millar. Bethel Burton.
Construction of gun carriages - - -	2569	6th Oct. 1865	George Wightwick Rendel.
Breech-loading fire-arms - - - (*Partly communicated by Albert Rohde.*)	2645	13th Oct. 1865	Henry Headley Williams.
Improvements in tompions for ordnance and small arms, and in stoppers for bottles and other vessels. (*Communicated by George Richard Willmot.*)	2650	13th Oct. 1865	William Edward Newton.
Improvements in central-fire breech-loading fire-arms, and in ammunition for the same - -	2709	20th Oct. 1865	Joseph Needham. George Henry Needham.
Construction of gun locks for the discharging central-fire cartridges as used in breech-loading fire-arms.	2743	24th Oct. 1865	Frederick Hargrave Gray.
Breech-loading fire-arms - - - -	2752	25th Oct. 1865	William Middleditch Scott.
Breech-loading fire-arms - - - (*Communicated by Cyprian Chabot and George Joseph Richardson.*)	2772	27th Oct. 1865	William Edward Newton.
Manufacture of ordnance whole or in parts - -	2795	30th Oct. 1865	William Deakin. John Bagnall Johnson.
Fire-arms - - - - - - (*Communicated by Emile Della-Noce.*)	2800	31st Oct. 1865	Charles Chattaway.
Apparatus for working, pointing and checking the recoil of cannon or ordnance. (*Communicated by John Ericsson.*)	2869	7th Nov. 1865	William Edward Newton.
Fire-arms and projectiles - - - -	2902	11th Nov. 1865	Charles William Jones.
Breech-loading fire-arms - - - -	2958	17th Nov. 1865	Joseph Rock Cooper.
Gun carriages - - - - - -	2976	20th Nov. 1865	Thomas Bridges Heathorn. Joseph Henry George Wells.
Improvements in breech-loading guns, and in cartridges for breech-loading guns.	2981	20th Nov. 1865	Charles Witney.
Certain new and useful improvements in breech-loading and repeating fire-arms. (*Communicated by Albert Ball.*)	3013	23rd Nov. 1865	Ebenezer Goodnow Lamson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ARMS, &c.—*continued.*			
Improvements in casting iron and steel and in apparatus employed for this purpose. (*ordnance.*)	3018	24th Nov. 1865	Joseph Whitworth.
Mounting ordnance - - - - -	3021	24th Nov. 1865	Robert Mallet.
Certain improvements in breech-loading fire-arms -	3082	1st Dec. 1865	William Pringle.
Construction of breech-loading fire-arms - -	3113	4th Dec. 1865	Edwin Charles Hodges.
Breech-loading fire-arms - - - - - (*Communicated by Philo Remington, Samuel Remington and Eliphalet Remington.*)	3151	7th Dec. 1865	Samuel Norris.
Machinery for rolling gun barrels and other articles	3155	8th Dec. 1865	Thomas Claridge.
Improvements in breech-loading fire-arms, and in cartridges for breech-loading fire-arms.	3178	9th Dec. 1865	Thomas Wilson.
An improved method of and apparatus for the working of breech-loading guns.	3197	11th Dec. 1865	William Jeremiah Murphy.
Improvements in breech-loading fire-arms and in ammunition for the same.	3249	15th Dec. 1865	James Aston.
Breech-loading fire-arms and rotating breech cylinder pistols, and cartridges to be used therewith. (*Communicated by Silas Crispin.*)	3258	16th Dec. 1865	Alfred Vincent Newton.
Repeating fire-arms - - - - - (*Communicated by Oliver Fisher Winchester.*)	3284	19th Dec. 1865	William Clark.
Improvements in the manufacture of metal tubes for gun brrrels and other purposes, and in machinery or apparatus employed therein.	3289	20th Dec. 1865	Thomas Rickett.
Improvements in the manufacture of steel and purified iron, and in the apparatus employed therein. (*making cannon.*) (*Communicated by Antoine Galy-Cazalat.*)	3300	21st Dec. 1865	Henri Adrien Bonneville.
Improvements in breech-loading fire-arms, and in cartridges for breech-loading fire-arms.	3337	26th Dec. 1865	Charles Reeves.
Improvements in breech-loading fire-arms, and in cartridges for the same.	3348	27th Dec. 1865	William Castle Dodge.
For ammunition, *see* "CARTRIDGES." " "GUNPOWDER." " "SHOT."			
FIRE-ENGINES; FIRE-ESCAPES; EXTINGUISHING FIRES.			
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Fire-escapes and portable ladders - - -	1164	26th April 1865	Thomas Dixon Whitehead.
An improved self-acting apparatus for and means of extinguishing fires - - -	1279	9th May 1865	Joe Green Hey. Valentine Savory.
Fire-engines - - - - - -	1404	22nd May 1865	James Shand.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-ENGINES, &c.—*continued.*			
A new preparation for subduing and extinguishing fire. (*Communicated by Gustav Zeisler.*)	1450	26th May 1865	Charles Benjamin Spaeth.
An improved fire-escape, applicable also to raising loads from mines and other purposes. (*Communicated by Xavier Philippart.*)	1666	21st June 1865	William Edward Gedge.
Means of and apparatus for raising water for agricultural and other useful and ornamental purposes. (*in case of fire.*) (*Communicated by Jean Louis Celestin Achard.*)	1918	22nd July 1865	William Edward Gedge.
Fire-engines and hydraulic machines - -	1953	28th July 1865	Leon Paul Laroche.
Self-acting apparatus for extinguishing fire and sounding fire alarms - - - - -	2109	15th Aug. 1865	William Oldfield Wilson. Joseph Wilson.
Arrangement and fittings of certain apparatuses for extinguishing fires.	2373	16th Sept. 1865	François Carlier.
Improvements in apparatus and means for extinguishing fires, part of such improvements being applicable for other purposes.	2559	5th Oct. 1865	William Henry Phillips.
Certain improvements in telegraphic communication for the purpose of indicating danger. (*giving alarm at fire-engine stations.*)	2584	7th Oct. 1865	Charles Hanson Mellor.
Double or single action pumps - - - (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
An improved mode of extinguishing fires in warehouses, offices, dwelling houses, theatres, ships and other buildings or structures.	2854	4th Nov. 1865	James Charles Edington.
An improved safety net to arrest the fall of persons or heavy bodies under circumstances of danger. (*in case of fire*)	2969	18th Nov. 1865	Léon Edouard Laurency.
Apparatus applicable for fire-escapes and builders' scaffolds.	3128	5th Dec. 1865	Edward Vagg.
Boilers or apparatus for generating steam - - (*for fire-engines.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Pumps - - - - - - - (*for fire-engines.*)	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Brain.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*ropes for fire-escapes.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
FIRE-PLACES, GRATES AND STOVES; FENDERS AND FIRE GUARDS.			
Means of and apparatus for generating steam and heat. (*portable stoves.*)	33	5th Jan. 1865	John Malsbury Kirby.
Improvements in effecting the combustion of fuel in the furnaces of steam-boilers and the fire-places of stoves, and of gas in gas-burners, and in apparatus connected therewith.	311	4th Feb. 1865	Frank Clarke Hills.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FIRE-PLACES, &c.—*continued.*			
Fire-places	407	13th Feb. 1865	Edward Brown Wilson.
Furnaces and fire-places	692	11th March 1865	Edward Brown Wilson.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles. (*crinoline guards.*)	699	13th March 1865	James Atkins.
Stoves or fire-places, ash pans and fenders (*fender or dress protector.*)	826	23rd March 1865	James Clifford Morgan.
Construction of kitchen ranges having their fire-places enclosed.	875	28th March 1865	Frederick Thomas.
Kitchen ranges	940	3rd April 1865	Frederick Brown.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
Construction of and mode of supplying fuel to fire-grates, stoves and the furnaces of locomotive and other steam-boilers.	1259	5th May 1865	Charles Lamport.
Furnace fire-grates	1270	8th May 1865	James Buchanan.
Manufacture of wire gauze dish covers, plate covers, window blinds, fire guards, and meat safes	1401	22nd May 1865	David Powis. Henry Brittain the younger.
Improvements applicable to furnace bars and fire grates.	1672	21st June 1865	Samuel Godfrey.
An improved method of and apparatus for burning liquid hydrocarbons, and the employment thereof for heating purposes. (*Communicated by Alexandre Schpakofsky and Nicolas Stange.*)	1711	27th June 1865	Richard Archibald Brooman.
The use and application of paper, printed or otherwise ornamented with water colors, for covering floors and other analagous purposes, as a substitute for carpets and oil cloths, and of an improved coating or varnish to be applied to the same, to protect its surface from injury and wear. (*and for covering fuel boxes.*)	1873	19th July 1865	Anson Henry Platt.
Construction of cooking stoves and ranges	1944	26th July 1865	William Barton.
Method of heating the ovens and boilers of kitchen ranges or cooking stoves.	2176	24th Aug. 1865	Frederick Thomas.
Improvements in apparatus by means of which certain liquids, common air and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*preserving uniform temperature in stoves.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
An improved fire-place with turning grate	2298	7th Sept. 1865	Abel Duvernois.
An improved method of and apparatus for separating ashes from cinders.	2667	16th Oct. 1865	James Lamb Hancock.
Gas stoves	2935	14th Nov. 1865	Samuel Lawrence Gill.
Stoves for drying moulds (*see* "FURNACES.")	2943	15th Nov. 1865	Henry Cochrane.
Cooking apparatus	2971	18th Nov. 1865	Samuel Hazard Huntly.
Certain improvements in the manufacture of knobs for doors, cupboards, ash-pans, and for other like purposes.	3081	1st Dec. 1865	John Wilson.

Subject-matter of Patent.	Number of Patent.	Date	Name of Patentee.
FIRE-PLACES, &c.—*continued.*			
A new and improved fire pot and retort for stoves, ranges and furnaces in which steam is generated and superheated.	3140	6th Dec. 1865	William Ennis.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Construction of kitchen stoves and cooking ranges	3144	6th Dec. 1865	George Fitzjames Russell.
Construction of fire-places and furnaces - -	3247	15th Dec. 1865	George Warriner.
Fire-places, furnaces and stoves - - -	3327	23rd Dec. 1865	Julius Jeffreys.
FISHING; FISHING NETS, FISH HOOKS, HARPOONS.			
An improvement in fish hooks - - -	428	15th Feb. 1865	William Ashton Hackett.
Rocket guns and rocket harpoons and apparatus to be used therewith, for the capture of whales and other purposes - - - - -	550	27th Feb. 1865	Thomas Welcome Roys. Gustavus Adolphus Liliendahl.
Machinery for the manufacture of fish hooks -	2673	17th Oct. 1865	Albert Fenton.
Fish hooks - - - - - - -	3177	9th Dec. 1865	Charles Baylis.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*nets for fishing and for aviaries.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
FLUES AND CHIMNEYS; CHIMNEY TOPS; CURING SMOKY CHIMNEYS; CHIMNEY WIND GUARDS.			
Certain improvements in the construction of tubular boilers, and in the means for cleaning the tubes of such boilers - - - - -	37	5th Jan. 1865	James Chapman Amos. William Anderson.
Improvements in furnaces, ash-pits and flues, for the consumption of smoke and noxious products of combustion, and in the apparatus or means connected therewith.	51	6th Jan. 1865	James Robertson.
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Improvements in furnace flues for the consumption of smoke.	94	11th Jan. 1865	Abraham Cooper.
Boilers for generating steam - - -	113	13th Jan. 1865	Richard Lewis.
Improvements in steam generators or steam-boilers and furnaces, part of which is also applicable to other heat generating apparatus.	243	27th Jan. 1865	Joseph Twibill.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FLUES, &c.—*continued.*			
Construction of caps or pots for the chimneys of dwellings houses and public buildings.	264	30th Jan. 1865	George Carter.
Steam generators - - - - - -	345	7th Feb. 1865	John Lake.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
An improvement in the manufacture of artificial stone for building and other purposes. (*for chimney tops.*)	441	16th Feb. 1865	William Kirrage.
Boilers for heating water and delivering it at an equal temperature to any number of flow pipes, and also for the generation of steam.	493	22nd Feb. 1865	Jasper Hulley.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*ventilating flues.*) (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Improvements in converting cast iron or pig iron into wrought iron or steel, and in machinery employed therein.	649	8th March 1865	Morgan Morgans.
An improvement in the construction of hot air stoves for blast furnaces.	666	9th March 1865	Joseph Cliff.
Furnaces and fire-places - - - - -	692	11th March 1865	Edward Brown Wilson.
Apparatus for smoke vents or chimneys - -	724	15th March 1865	Thomas Kennedy.
Means or method of curing or preventing smoky chimnies.	911	31st March 1865	Benjamin Greenwood.
Steam-boilers, steam-boiler tubes, sides of steam-boilers' flues and furnaces.	988	7th April 1865	George Rydill.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
Superceding the unsightly chimey pots now in use	1400	22nd May 1865	Robert Haswell.
Ovens or kilns for the manufacture of coke -	1435	25th May 1865	John Gjers.
Means and apparatus employed for preventing downward draft in chimnies, facilitating the escape of smoke therefrom, and for ventilating apartments or buildings - - - - -	1471	29th May 1865	Edward Myers. James Stodart.
Instruments or apparatus for cleaning the interior of tubes or hollow cylinders, gas chimneys and other hollow articles.	1479	30th May 1865	James Hare the younger.
Furnaces - - - - - - - (*Communicated by François Durand.*)	1590	12th June 1865	Richard Archibald Brooman.
Multitubular hot water boilers - - -	1614	14th June 1865	Henry Ormson.
Improved sanitary apparatus or arrangements for preventing noxious exhalations such as arise when coating or treating iron or other articles -	1690	24th June 1865	Matthew Andrew Muir. James M'Ilwham.
Means and apparatus for consuming smoke - (*Communicated by François Augustus Fouché and Claude Moret.*)	1697	24th June 1865	William Clark.
Improvements in tubular structures rendering them specially applicable for ships' masts and building purposes. (*passages for smoke.*)	1755	3rd July 1865	Edward Deane.
Construction and working of furnaces for puddling, balling, heating and melting metals.	1882	19th July 1865	David Caddick.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FLUES, &c.—*continued.*			
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*preventing deposition of carbon in boiler tubes.*)	1952	27th July 1865	Henry Sherwood.
Improvements in and connected with the manufacture of copper.	2100	14th Aug. 1865	James Thomas Lockey.
Improvements in boilers and furnaces, and in cleansing the flues thereof - - - -	2291	6th Sept. 1865	Edward Green. Edward Green the younger.
A locomotive car - - - - - - (*smoke and exhaust pipe.*)	2344	13th Sept. 1865	Joseph Page Woodbury.
Improved apparatus for cleaning the tubes of steam-boilers. (*Communicated by Daniel M'Dowell.*)	2346	13th Sept. 1865	Samuel Soutar.
Improvements in the manufacture of bricks, blocks, flue covers and tiles, and in the machinery and apparatus employed therefor.	2392	19th Sept. 1865	James Gillespie.
Apparatus for ventilating and for preventing down draught in flues.	2467	26th Sept. 1865	John Hilliar.
Improvements in coke and charcoal ovens and in the manufacture of coke, parts of which are applicable to bread, biscuit and pastry ovens.	2477	27th Sept. 1865	William Morgans.
Collecting or drawing off the gases from blast furnaces - - - - - -	2507	29th Sept. 1865	John Addenbrooke. George Addenbrooke. Philip Anthony Millward.
Improvements in apparatus for the regulation of the up and down currents of air, and for the prevention and cure of smoky chimneys.	2602	10th Oct. 1865	William Cooke.
An improved ventilating apparatus for use in steam boats, vessels and other places requiring to be ventilated.	2609	10th Oct. 1865	John Garrison Woodward.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, jun^r., and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
An improved apparatus for forming or repairing the mouths of boiler and other tubes. (*Communicated by Edward Clark.*)	2697	19th Oct. 1865	George Reverdy Ghiselin.
Construction of furnaces and boilers for the consumption of smoke - - - - -	2746	24th Oct. 1865	Charles Matthews. Henry Booth Southwick. John Fereday.
An improved mode of and apparatus for cleaning the tubes of steam-boilers. (*Communicated by Abraham Egenton.*)	2761	26th Oct. 1865	George Davies.
An improved apparatus for increasing draught in and preventing or curing smoky chimneys, and economising heat. (*Communicated by François Perrachon.*)	2822	2nd Nov. 1865	William Edward Gedge.
Stoves for drying moulds - - - - (*formation of flues.*)	2943	15th Nov. 1865	Henry Cochrane.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FLUES, &c.—*continued.*			
Cooking apparatus - - - -	2971	18th Nov. 1865	Samuel Hazard Huntly.
An improved chimney cowl - - - (*Communicated by Victor Etienne Antoine Berne and Irma Victorine Carabin.*)	3052	28th Nov. 1865	Henry Edward Newton.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - - (*increasing draft of chimneys.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
Improvements in steam-boilers and in apparatus adapted for cleaning the flues of boilers.	3184	9th Dec. 1865	Norman Willis Wheeler.
Boilers or apparatus for generating steam - - (*preservation of the tubes.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archidald Brooman.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required. (*passages for smoke.*)	3314	22nd Dec. 1865	Edward Deane.
FOOD FOR CATTLE; FODDER-CUTTING; CHAFF-CUTTING; ROOT-PULPING.			
Manufacture of oil cake and food for animals -	282	1st Feb. 1865	George Julius Vertue.
Improved machinery for cutting, sifting, separating, bruising, sacking and preparing straw and other vegetable fibrous substances to be employed in the manufacture of various kinds of paper, and also for preparing food for cattle -	340	7th Feb. 1865	John Cornes. William Simpson.
Machinery or apparatus for preparing and supplying food for cattle.	927	1st April 1865	Robert Willacy.
Apparatus applicable to machines for cutting hay, straw and such like substances - - -	934	3rd April 1865	Richard Robert Riches. Charles James Watts.
Improved apparatus for reducing wheat and other straw. (*as cattle food.*)	985	6th April 1865	Richard Garrett, jun^{r}.
Machines for cutting hay, straw and other vegetable substances - - - -	1501	1st June 1865	Francis Richmond. Henry Chandler. James Gadsby Richmond.
Apparatus for cutting hay, straw and other vegetable material.	1712	27th June 1865	James Spratt.
Improvements in food for horses and in the preparation of the same.	1826	10th July 1865	Robert Hineson.
Preparation and preservation of food for animals -	1857	15th July 1865	Richard Vine Tuson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FOOD FOR CATTLE, &c.—*continued.*			
Applying and utilising water power (*driving chaff cutters.*)	1967	29th July 1865	Valentine Baker.
Machinery or apparatus for preparing and supplying food for cattle.	2514	30th Sept. 1865	Robert Willacy.
Treating brewers' grains in order to render them more suitable for the food of animals.	2898	10th Nov. 1865	Edward John Davis.
An improved apparatus for apportioning the fodder of horses, cattle and other domestic animals.	3237	14th Dec. 1865	Jacques Masson.
FORTIFICATIONS, BATTERIES, SHIPS OF WAR, GUN-BOATS, ARMOUR PLATED SHIPS.			
Construction of armour-plated ships, forts, and other like structures.	286	1st Feb. 1865	John Hughes.
Improvements in armour plated ships, forts, gun carriages and works of defence, and in fastenings to be employed therein.	292	2nd Feb. 1865	Charles Lungley.
Improvements in armour plated and other ships or vessels, also applicable to fortifications generally.	296	2nd Feb. 1865	Julius Saunders Jeffreys.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Roberts Markham.
Construction of armour plated ships (*Communicated by Charles Otis Holyoke.*)	438	15th Feb. 1865	George Tomlinson Bousfield.
Armour plates for vessels of war and for other similar purposes.	455	17th Feb. 1865	John Brown.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Improvements in vessels of war and in ordnance	783	21st March 1865	William Vincent Greene.
Improvements in the construction of ships of war and floating batteries, part of which improvements are applicable to land fortifications.	1107	20th April 1865	Henry Caudwell.
Improvements in iron fortifications, such improvements being applicable to the construction and protection of ships and floating batteries.	1209	1st May 1865	George Johnson.
Improving and strengthening shields of steel, iron or iron or other material, for ships, fortifications and other constructions.	1225	2nd May 1865	Thomas Hay Campbell.
Sheathing iron ships	1612	14th June 1865	William Robinson Mulley.
Floating lights, beacons, floating batteries and other vessels.	2173	24th Aug. 1865	John Moody.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FORTIFICATIONS, &c.—*continued.*			
Treating, working or manipulating cast steel, for the manufacture of wheel tires, armour plates, or other articles requiring great hardness and tensile strength.	2277	5th Sept. 1865	Julien Grand.
Mounting and working guns in ships, forts and batteries.	2306	8th Sept. 1865	John Walker.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
FUEL; TREATING COAL; PREPARING FIRE-WOOD; FIRE-LIGHTERS.			
Improvements in the treatment of carbonaceous minerals and in apparatus for preparing agglomerated fuel.	40	6th Jan. 1865	Joseph Emile Vigouléte.
Artificial fuel - - - - - -	81	10th Jan. 1865	Daniel Gallafent. Frederick Pontifex.
Machinery for compressing coal dust and other materials fit for burning, also clay into bricks, tiles, pipes and other like articles.	220	26th Jan. 1865	William Smith.
Improvements in treating or manufacturing peat for fuel and in apparatus for the same.	319	4th Feb. 1865	Robert Morellet Alloway.
A chemical combustible substance and apparatus to which it is applicable. (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
Improvements in drying and sorting coals, peat and mineral ores, in separating extraneous matters therefrom, and in apparatus used in those processes.	715	14th March 1865	Ferdinand Henry Warlich.
New or improved apparatus for separating or sorting and washing ores, minerals, coal, emery, and other substances in a granular or pulverulent state. (*Communicated by Charles Prieger and Theodor Hundt.*)	963	5th April 1865	Henry Simon.
Improvements in the manufacture of iron, and in preparing fuel to be used in the manufacture and melting of iron - - - - -	1153	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
Manufacture of artificial fuel applicable chiefly to the kindling of fires.	1438	25th May 1865	Henry Gibbs.
Manufacture of artificial fuel - - -	1547	6th June 1865	David Barker.
A new or improved artificial fuel - - -	1600	13th June 1865	Charles James Collins.
Improved machinery for compressing and solidifying coal and other analagous substances.	1606	14th June 1865	Henry George Fairburn.
An improved pulping and compressing machine, for the treatment of peat as a fuel, and gas for illuminating purposes - - - - -	1703	26th June 1865	Charles Worssam. George Evans.
An improved mode of combining and forming small coal or coal dust into lumps, blocks or otherwise, to be employed for the purposes of fuel.	1716	28th June 1865	Henry George Fairburn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FUEL, &c.—*continued.*			
A new or improved method of dissolving pitch - (*Communicated by François Celestin Armelin.*)	1770	4th July 1865	Richard Archibald Brooman.
Means or method of applying mineral oils for generating steam and heat. (*for fuel.*) (*Partly communicated by Alexandre Szpis.*)	1928	25th July 1865	Wladislaus Zbyszewski.
Apparatus for burning combustible and volatile liquids for generating steam and similar purposes. (*Communicated by Patrick Hayes.*)	1938	26th July 1865	Gaorge Tomlinson Bousfield.
Method of and apparatus for treating peat and other plastic materials - - - - - (*for fuel.*)	2219	29th Aug. 1865	Hull Terrell. Thomas Don.
Separation of sulphide of iron from coal and carbonaceous matter.	2252	1st Sept. 1865	Thomas Lomas.
Means and apparatus applicable to the lighting and reviving of fires.	2329	11th Sept. 1865	Charles James Webb.
Preparing peat or turf for fire lights and fuel, and for machinery to be employed therein.	2436	23rd Sept. 1865	Thomas Vincent Lee.
Machinery for tempering and preparing peat for fuel. (*Communicated by Nathaniel Frothingham Potter.*)	2469	26th Sept. 1865	George Tomlinson Bousfield.
Caloric or hot air engines - - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François Georges Sicardo.
Improved machinery for compressing and solidifying coal, clay and other analogous substances.	3242	14th Dec. 1865	Henry George Fairburn.
See also "CHARCOAL."			
FULLING AND FELTING; FELTED FABRICS; FLOCK, WADDING.			
Improved means or apparatus for printing felts, floor cloths, carpets and woven fabrics.	1155	25th April 1865	John Wilkinson the younger.
Manufacture of flock fabrics - - - (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
Improved machinery for fulling fur hats or felt hats (*Communicated by Onezippe Silvie.*)	1314	12th May 1865	Etienne Lucien Girard.
Manufacture of hats and other felted goods and fabrics. (*Communicated by Edwin Dodd M'Cracken, James M'Cracken, Charles Edward M'Cracken, John Adams Southmayd and Robert Warner Southmayd.*)	1707	26th June 1865	William Edward Newton.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes -	1775	5th July 1865	John Longbottom. Abram Longbottom.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FULLING, &c.—*continued.*			
An improved process of preparing sea weeds and other vegetable substances for the production of artificial guano, felt, alkaline salts and iodine.	1877	19th July 1865	Donald McCrummen.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap. (*fulling cloth.*)	3107	4th Dec. 1865	Leopold Joseph Bouchart.
Means or apparatus for the fulling, scouring and cleansing of woollen yarns and cloths - -	3221	13th Dec. 1865	Benjamin Porritt. William Priestley.
Certain improvements in the manufacture of felt -	3228	14th Dec. 1865	Harry Prowse.
FURNACES AND FIRE-BOXES; SUPPLYING FURNACES WITH FUEL.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - - - (*for blast furnaces.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Improvements in furnaces, ash-pits and flues, for the consumption of smoke and noxious products of combustion, and in the apparatus or means connected therewith.	51	6th Jan. 1865	James Robertson.
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Improvements in furnace flues for the consumption of smoke.	94	11th Jan. 1865	Abraham Cooper.
Furnaces - - - - - - (*Communicated by Dominique Chiado.*)	103	12th Jan. 1865	Michael Henry.
Furnaces - - - - - - -	110	13th Jan. 1865	William Smith Longridge. James Mash.
Apparatus for charging and drawing gas retorts and for other purposes - - - - - (*charging boiler furnaces.*)	142	17th Jan. 1865	Sealy James Best. James John Holden.
Improvements in puddling, heating and other reverberatory furnaces used in the manufacture of iron and steel and for other purposes, which improvements may also be applied to steam-boiler furnaces.	173	20th Jan. 1865	John Hewes.
Furnaces for melting metals and smelting ores -	209	24th Jan. 1865	William Woodward. Robert Woodward. John Woodward. Adam Woodward, junr.
Improvements in lining the sides and bottoms of puddling furnaces and other furnaces employed in the manufacture of iron or steel, and in mending, repairing and fettling the sides and bottoms of the said puddling and other said furnaces.	224	26th Jan. 1865	Robert Mushet.
Furnaces - - - - - - -	240	27th Jan. 1865	Charles de Bergue.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Improvements in steam generators or steam-boilers and furnaces, part of which is also applicable to other heat generating apparatus.	243	27th Jan. 1865	Joseph Twibill.
Improvements in effecting the combustion of fuel in the furnaces of steam-boilers and the fire-places of stoves, and of gas in gas burners, and in apparatus connected therewith.	311	4th Feb. 1865	Frank Clarke Hills.
Improvements in furnaces for smelting iron ores, commonly called blast furnaces, also in cupolas used in foundries, for rendering down or melting iron or other metals.	374	10th Feb. 1865	Evan Leigh.
Case hardening or converting partially into steel, articles of wrought or malleable iron. (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Cupolas and blast furnaces - - - -	397	11th Feb. 1865	Henry Houldsworth Grierson. John Macvicar Rigby.
Furnaces for smelting or reducing ores and for melting metals - - - - -	411	14th Feb. 1865	Herbert John Walduck. Edward Barton.
An improved blowing apparatus - - -	427	15th Feb. 1865	Samuel Richards Freeman. Abraham Grundy.
Furnaces - - - - - - - (*for boilers, &c.*)	443	16th Feb. 1865	Edward Brown Wilson.
Apparatus for distilling petroleum and other volatile liquids and for making gas. (*Communicated by George Hughes Sinclair Duffus.*)	447	16th Feb. 1865	William Edward Newton.
Improvements in puddling furnaces and in apparatus connected therewith.	473	18th Feb. 1865	John Gay Newton Alleyne.
A chemical combustible substance and apparatus to which it is applicable. (*for furnaces, chafing dishes, &c.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
An improvement in the utilization of the waste gases of blast furnaces.	478	20th Feb. 1865	Joseph Cliff.
Boilers for heating water and delivering it at an equal temperature to any number of flow pipes, and also for the generation of steam.	493	22nd Feb. 1865	Jasper Hulley.
Method of and apparatus for generating heat - -	516	24th Feb. 1865	Joseph Jacob. Rudolph Pilzinger.
Smoke consuming apparatus - - -	584	2nd March 1865	Samuel Hopkinson. Edwin Hopkinson.
Tubular boilers - - - - - - (*Communicated by Louis Felix Meunier.*)	624	7th March 1865	Richard Archibald Brooman.
Improvements in converting cast iron or pig iron into wrought iron or steel, and in machinery employed therein.	649	8th March 1865	Morgan Morgans.
Stoves for heating air supplied to blast furnaces -	650	8th March 1865	Richard Howson.
An improved manufacture of iron forgings - -	654	8th March 1865	William Clay.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
An improvement in the construction of hot air stoves for blast furnaces.	666	9th March 1865	Joseph Cliff.
Steam-boilers and the furnaces thereof - -	685	11th March 1865	Edward Brown Wilson. James Howden.
Manufacture of iron and steel - - -	689	11th March 1865	James Henderson.
Furnaces and fire-places - - - -	692	11th March 1865	Edward Brown Wilson.
Puddling, heating and other furnaces - -	700	13th March 1865	Joseph Wright.
Water twyers for blast furnaces - - - (*Partly communicated by Mr. Norris Best.*)	722	15th March 1865	Nathaniel Neal Solly.
Apparatus for blowing smiths' and other fires -	755	18th March 1865	James Cookson. Philip Billington.
Improvements in the manufacture of looking glasses or mirrors, and in apparatus employed therein. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	786	21st March 1865	John Henry Johnson.
Improvements in the construction of furnaces for the consumption of smoke - - - -	862	27th March 1865	Charles Matthews. John Fereday.
Furnaces or apparatus for heating the blast for furnaces used in smelting iron and for other furnaces.	891	29th March 1865	John Player.
A new or improved mode of rapidly reducing, cementing and melting iron and other ores, also iron slag or cinders, dross and scales or crust, to produce directly therefrom steel or malleable or cast iron. (*Communicated by Jean Baptiste Helson.*)	899	30th March 1865	William Brookes.
Steam-boilers - - - - - -	906	31st March 1865	John Swarbrick. David Swarbrick. Benjamin Swarbrick. Ormerod Swarbrick.
Apparatus applicable to furnaces for smelting ores and melting metals - - - - -	942	3rd April 1865	Henry Brook. John Eastwood. George Brook, jun^{r}.
An improved rabble or bar used in puddling iron -	968	5th April 1865	George Walter Dyson.
Steam-boilers, steam-boiler tubes, sides of steam-boilers' flues and furnaces.	988	7th April 1865	George Rydill.
A new method of applying suction and blast, and the apparatus employed therein. (*Communicated by Felix Alexandre Testud de Beauregard.*)	1028	11th April 1865	Richard Archibald Brooman.
Improvements in steam generators applicable also to condensers or coolers. (*Communicated by Thomas Luders.*)	1029	11th April 1865	John Henry Johnson.
Arrangement of furnaces used for puddling and reheating iron, the generation of steam and other similar purposes.	1064	13th April 1865	William Beardmore.
Smoke consuming furnaces - - - (*Communicated by Etienne Sauret and Eugene de Fleury.*)	1152	25th April 1865	Richard Archibald Brooman.
Apparatus for disintegrating vegetable and animal substances.	1168	26th April 1865	François Dominique Pierre Jacques Cabasson.
Furnaces used for smelting and melting iron and other metals.	1183	27th April 1865	William Balk.
Furnaces - - - - - - -	1186	27th April 1865	Dundas Simpson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Means and apparatus for puddling iron	1221	1st May 1865	Thomas Frederick Cashin. Joseph Felix Allender.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Construction of and mode of supplying fuel to fire grates, stoves and the furnaces of locomotive and other steam-boilers.	1259	5th May 1865	Charles Lamport.
Furnace fire-grates	1270	8th May 1865	James Buchanan.
Furnaces of steam-boilers	1272	18th May 1865	Thomas Molden. John Newsome. James Akeroyd.
Cupola and other blast furnaces	1448	26th May 1865	Richard Canham.
Construction of furnaces or fire-places (*Communicated by Louis Phillip Cohen.*)	1451	26th May 1865	Mylius Cohen.
Improvements in the manufacture of steel, and in furnaces used in such manufacture. (*Communicated by Jules Paulis.*)	1460	27th May 1865	Louis Moser.
Construction of furnaces (*for steam-boilers.*)	1469	29th May 1865	Peter Young.
Foundry cupolas	1498	31st May 1865	Thomas Summerson.
An improved economic boiler for hot water apparatus, applicable for the heating of hothouses, churches and other public buildings.	1510	1st June 1865	Frederick Knight.
Furnaces used in the manufacture of welded iron tubes.	1517	2nd June 1865	Thomas Pritchard.
Caloric or heated air engines (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Furnaces (*Communicated by François Durand.*)	1590	12th June 1865	Richard Archibald Brooman.
Furnaces (*Communicated by Felix Alexandre Testud de Beauregard.*)	1620	15th June 1865	Richard Archibald Brooman.
Improvements applicable to furnace bars and fire-grates.	1672	21st June 1865	Samuel Godfrey.
Means and apparatus for consuming smoke (*Communicated by François Augustus Fouché and Claude Moret.*)	1697	24th June 1865	William Clark.
A new or improved self-acting apparatus for distributing the feeding materials in high furnaces. (*Communicated by Emile Langen.*)	1733	29th June 1865	Alexander Prince.
Improvements in the manufacture of gas retorts and other articles made of fire clay, and in furnaces for burning the same and for other purposes.	1737	30th June 1865	William Schofield.
Improvements in steam-boilers, furnaces, and engines, and in parts connected therewith.	1745	30th June 1865	Edwin Elliott.
Improvements in locomotive engines and in springs of railway carriages. (*roofs of the fire-boxes.*)	1769	4th July 1865	James Edwards Wilson.
Means and apparatus for increasing the mechanical power of steam.	1820	10th July 1865	William Alexander Lyttle.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Treatment of copper and nickel ores - - (*Communicated by Viscount Charles de Secqueville.*)	1831	11th July 1865	Hector Auguste Dufrené.
Construction and working of furnaces for puddling, balling, heating and melting metals.	1882	19th July 1865	David Caddick.
Locomotive boiler furnaces - - - -	1929	25th July 1865	John Juckes, jun^{r}. John Swinburne.
Apparatus for burning combustible and volatile liquids for generating steam and similar purposes. (*Communicated by Patrick Hayes.*)	1938	26th July 1865	George Tomlinson Bousfield.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases for steam-boiler furnaces.*)	1952	27th July 1865	Henry Sherwood.
Fire-engines and hydraulic machines - - (*blow pipes of forges.*)	1953	28th July 1865	Leon Paul Laroche.
Means or apparatus for promoting the combustion of fuel in furnaces of steam-boilers, dyers' or brewers' pans and other furnaces whereby smoke is prevented and fuel economized - -	1972	31st July 1865	Benjamin Robinson. Joseph Varley.
Locomotive and other tubular boilers - -	1990	1st Aug. 1865	Louis Emile Constant Martin.
Machinery to be used in the manufacture of plate or sheet iron and steel. (*Communicated by Martin Dieudonné Henvaux.*)	2012	3rd Aug. 1865	Ephraim Sabel.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*supplying oil as fuel to furnaces.*) (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Improvements in and connected with the manufacture of copper.	2100	14th Aug. 1865	James Thomas Lockey.
Furnaces to be used in the manufacture of glass and iron and steel, and for other like purposes. (*Communicated by Henning Boetius.*)	2105	15th Aug. 1865	John Frederick Boetius.
Blacksmiths' bellows, more especially those used in portable forges.	2152	21st Aug. 1865	John Bowden.
Steam-boiler and other furnaces - - -	2158	22nd Aug. 1865	John Lockwood.
An improved furnace for annealing iron and steel wire or rods.	2166	23rd Aug. 1865	John Howard Scott.
Improvements in the manufacture of steel iron and metal suitable for bearings, and in apparatus for the same. (*air furnace.*)	2175	24th Aug. 1865	William Colborne Cambridge.
A new and useful steam blower or blast apparatus for furnaces. (*Communicated by John Allen Bassett.*)	2245	31st Aug. 1865	Oliver Bennett.
Improvements in boilers and furnaces, and in cleansing the flues thereof - - -	2291	6th Sept. 1865	Edward Green. Edward Green the younger.
Means of and apparatus for consuming smoke in furnaces.	2382	19th Sept. 1865	Charles Worssam.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron (*for heating hot-blast stoves.*)	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Improvements in and applicable to furnaces for the consumption of smoke.	2405	21st Sept. 1865	William Watkin.
Improvements in blast furnaces and in charging the same. (*Communicated by Alexandre Lebrun-Virloy.*)	2413	21st Sept. 1865	Richard Archibald Brooman.
Manufacture of iron and steel, and of furnaces and machinery for purifying, puddling or heating the same	2461	26th Sept. 1865	Thomas Frederick Cashin. Joseph Felix Allender.
Collecting or drawing off the gases from blast furnaces	2507	29th Sept. 1865	John Addenbrooke. George Addenbrooke. Philip Anthony Millward.
Improvements in producing and combining gases to be used for heating purposes, and in the construction of retorts for producing and combining such gases.	2527	2nd Oct. 1865	Silas Covell Salisbury.
Blast furnaces	2528	2nd Oct. 1865	Silas Covell Salisbury.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
Caloric or hot air engines (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François Georges Sicardo.
Furnaces	2682	17th Oct. 1865	William Beardmore.
Furnaces of and means of heating the feed water for steam-boilers	2712	20th Oct. 1865	John White.
An improved apparatus for calcining copper ore, and for treating the products of copper ore when being calcined.	2720	21st Oct. 1865	Arthur Bankart.
Steam-boilers	2738	23rd Oct. 1865	Alexander Chaplin.
Construction of furnaces and boilers for the consumption of smoke	2746	24th Oct. 1865	Charles Matthews. Henry Booth Southwick. John Fereday.
Furnaces	2803	31st Oct. 1865	Robert Cassels. Thomas Morton.
Improvements in the manufacture of iron and steel, and in apparatus employed in such manufactures.	2835	3rd Nov. 1865	Henry Bessemer.
Apparatus for separating dust from the gases evolved from blast furnaces.	2885	8th Nov. 1865	Charles Cochrane.
Furnaces for heating the blast for blast furnaces	2897	10th Nov. 1865	Thomas Whitwell.
Stoves for drying moulds	2943	15th Nov. 1865	Henry Cochrane.
Furnaces	2963	17th Nov. 1865	Thomas Maxwell Tennant.
Apparatus for condensing exhaust steam, and heating air by the heat abstracted in effecting the condensation of such steam. (*for supplying oxygen to boiler furnaces.*) (*Communicated by Addison Calvin Fletcher.*)	2996	21st Nov. 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNACES, &c.—*continued.*			
Furnaces - - - - - - -	3025	25th Nov. 1865	William Alexander Lyttle.
Means and apparatus for raising heat by the combustion of fuels of various kinds.	3029	25th Nov. 1865	John Francis Bennett.
Means or apparatus for economizing and inducing more perfect combustion of fuel in furnaces.	3062	29th Nov. 1865	Thomas Lancaster.
Improvements in the manufacture and treatment of railway bars, tyres and axles, also in the construction of furnaces, machinery and apparatus connected therewith.	3084	1st Dec. 1865	Thomas Weatherburn Dodds.
Improvements in the manufacture of salt, and in machinery or apparatus for that purpose. (*feeding the fires with small coal.*)	3105	4th Dec. 1865	Dennis Hall.
Certain improvements in the construction of forge furnaces.	3109	4th Dec. 1865	William Beardmore.
Improvements in puddling, heating and other reverberatory furnaces used in the manufacture of iron and steel, and for other purposes.	3136	6th Dec. 1865	Thomas Lewis Nicklin.
A new and improved fire pot and retort for stoves, ranges and furnaces in which steam is generated and superheated.	3140	6th Dec. 1865	William Ennis.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Improvements in steam-boilers and in apparatus adapted for cleaning the flues of boilers. (*annular or segmental grate.*)	3184	9th Dec. 1865	Norman Willis Wheeler.
Improvements in locomotive engines and in the means employed for generating steam therein. (*fire-box.*)	3185	9th Dec. 1865	Robert Francis Fairlie.
Construction of fire-places and furnaces - -	3247	15th Dec. 1865	George Warriner.
Certain improvements in the means of collecting waste gases arising from blast furnaces - -	3261	18th Dec. 1865	Samuel Whitehouse the elder. Samuel Whitehouse the younger. Jeremiah Whitehouse. William Whitehouse.
Improvements in the manufacture of steel and purified iron, and in the apparatus employed therein. (*Communicated by Antoine Galy-Cazalat.*)	3300	21st Dec. 1865	Henri Adrien Bonneville.
Fire-places, furnaces and stoves - - -	3327	23rd Dec. 1865	Julius Jeffreys.
Improvements applicable to steam-boilers, iron, steel, retort and other furnaces.	3338	26th Dec. 1865	Joshua Fisher.
Improvements in the manufacture of soda and in the apparatus employed in the said manufacture. (*Communicated by Alphonse Laurent.*)	3340	26th Dec. 1865	Michael Henry.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNITURE;—BEDSTEADS, TABLES, CHAIRS, CRADLES AND NURSING-APPARATUS; CASTORS, BEDSTEAD-BOTTOMS.			
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	58	7th Jan. 1865	James Atkins.
An improved elastic mattrass or bedstead - - (*Communicated by François Carré.*)	87	11th Jan. 1865	William Edward Gedge.
An improved kind of bedstead suitable for camp and domestic purposes.	149	18th Jan. 1865	Edward Deane.
Certain improvements in rendering soundless furniture and other articles for domestic purposes.	196	23rd Jan. 1865	Adolphe Drevelle.
Folding chairs and other seats - - - -	199	23rd Jan. 1865	Thomas Brown.
An improved portable folding arm chair or seat - (*Communicated by Louis Lopera, junior.*)	280	1st Feb. 1865	William Edward Gedge.
Fastenings for doors, windows, drawers and other like purposes - - - - - - -	369	9th Feb. 1865	George Edward Meek. William Howes Howes.
Construction of cabinet-sofa and chair bedsteads -	476	20th Feb. 1865	Andrew Sharp.
Portable invalid or bed tables - - - -	525	24th Feb. 1865	Charles James Rowe.
Improved portable frames and joints for tables and other articles, applicable also for building purposes and the like.	542	27th Feb. 1865	Charles Whiting.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	699	13th March 1865	James Atkins.
Cabin furniture for ships and other vessels - -	829	24th March 1865	Charles Bevan.
A portable covered hammock - - - - (*Communicated by Sigge Flach.*)	894	30th March 1865	Thorsten Wilhelm Nordenfelt.
A new or improved table and support for invalids -	1069	15th April 1865	Thomas Edward Harding.
Folding beds and bedsteads - - - - (*Communicated by Frederick Mesbrow Payne and John Spencer Giles.*)	1228	2nd May 1865	William Edward Newton.
A new or improved chair-ladder - - - - -	1232	3rd May 1865	Jean Baptiste Lavanchy.
Construction of bedsteads - - - - -	1379	18th May 1865	Cyrus Copus.
Mechanism for locking or fastening tiers or sets of drawers arranged in writing tables, cabinets, chests or other articles of furniture.	1462	27th May 1865	Ludwig Diele.
An improved exercising chair for infants - -	1508	1st June 1865	Thomas Brinsmead.
An improved elastic mattress or spring bed - - (*Communicated by Henry Marie Hingand de Saint Maur.*)	1652	20th June 1865	William Edward Gedge.
Machinery for cutting dovetails for joiners' work - (*for articles of furniture.*)	1671	21st June 1865	William Roberts.
Castors - - - - - - - - -	1689	24th June 1865	Robert Eastman.
An improved portable table or seat - - - - (*Communicated by Charles Joseph Everickx.*)	1691	24th June 1865	Richard Archibald Brooman.
A new or improved table or support to be employed in the dressing and finishing of cheeses.	1722	28th June 1865	William Percival.
The use and application of paper, printed or otherwise ornamented with water colors, for covering floors and other analagous purposes, as a substitute for carpets and oil cloths, and of an improved coating or varnish to be applied to the same, to protect its surface from injury and wear. (*and for covering counters, desks, &c.*)	1873	19th July 1865	Anson Henry Platt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNITURE, &c.—*continued.*			
Bedsteads, sofas and chairs - - -	1912	22nd July 1865	George Wilson. James Goodfellow.
Ornamental tables and table stands, such as cruet frames, liqueur frames, flower, egg and other stands - - - - - - -	1925	25th July 1865	Louis Pêtre. Edward Samuel Tucker.
Improvements in the sackings of metallic and other bedsteads, sofas, couches and other like articles, which said improvements may also be applied to the seats of chairs, railway carriages and other articles. (*Communicated by Thomas Tunnington.*)	2036	5th Aug. 1865	Henry Geering.
Manufacture and ornamenting of carpets, rugs and other fabrics. (*chair covers.*)	2181	25th Aug. 1865	Lemuel Clayton.
Folding chairs - - - - - - (*Communicated by James Gourley English and Edward Francis Mersick.*)	2200	26th Aug. 1865	George Tomlinson Bousfield.
An improved reclining chair - - - - (*Communicated by William Henry Van Northwick.*)	2504	29th Sept. 1865	George Davies.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles. (*desks.*)	2613	10th Oct. 1865	Arthur Nicholls.
Rendering wood for building and other purposes non-combustible or non-inflammable. (*fireproofing wood for furniture.*)	2625	11th Oct. 1865	William Bull.
Bedsteads, seats, couches and other articles for sitting and reclining on.	2656	14th Oct. 1865	James Lamb Hancock.
Folding chairs - - - - - - (*Communicated by Auguste Emanuel Eliaers.*)	2678	17th Oct. 1865	George Davies.
An improved process for bending or arching wood - (*Communicated by Louis Parrabère.*)	2723	21st Oct. 1865	William Edward Gedge.
Improvements in roller skates, and in the rollers to be used therewith and for other purposes. (*applicable to furniture.*)	2770	27th Oct. 1865	Robert Bell Sanson.
Cabinet furniture - - - - - -	2901	11th Nov. 1865	Daniel Slater.
An improved piece of furniture convertible into a seat with back on either side, a seat with desk on either side or a seat with table on either side.	3057	29th Nov. 1865	Thomas Laurie.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*making furniture seating.*) (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
Certain improvements in the manufacture of knobs for doors, cupboards, ashpans, and for other like purposes.	3081	1st Dec. 1865	John Wilson.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*for tables or panels.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Construction or manufacture of metal bedsteads -	3135	6th Dec. 1865	Henry Berkeley Hamilton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
FURNITURE, &c.—*continued.*			
Furnishing and adapting ordinary tables for playing billiards.	3186	9th Dec. 1865	Henry Snart Marshall.
Construction of castors	3294	20th Dec. 1865	Robert MacLeod Claypole.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for veneering furniture, for chair bottoms, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes (*lacing lines for bedsteads, for making bed sacking, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Construction of show-cases, picture-frames, house and shop furniture and fittings, and other similar articles.	3364	29th Dec. 1865	David Vogl.
GAMES AND EXERCISES; BILLIARDS AND BAGATELLE.			
Cushions for billiard and other like tables	316	4th Feb. 1865	James Lyne Hancock.
Improvements in boxing, fencing and cricket gloves, and in cricket pads or guards.	382	10th Feb. 1865	Henry Emanuel.
Cricket, racket and tennis balls	696	11th March 1865	Charles Huntley.
Rests or supports for cues or other similar instruments used for billiards or other similar games.	1048	12th April 1865	George Jackson.
An improvement in mallets used in the game of croquet and other similar games.	1181	27th April 1865	Joseph Frederick Feltham.
An improved croquet stand	1214	1st May 1865	Walter Thomas Whitmore Jones.
Wickets for the game of cricket	1478	30th May 1865	William Hubert Stanley.
An improved exercising chair for infants	1508	1st June 1865	Thomas Brinsmead.
Croquet mallets	1704	26th June 1865	Samuel Stephen Bateson.
An improved circular endless railway (*used as a pastime.*) (*Communicated by Ernest Michaux.*)	1771	5th July 1865	William Edward Gedge.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes (*billiard table mats.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Improved means for marking progress in the game of croquet and other games	1829	11th July 1865	James Soutter, sen^{r}. Thomas Christie.
A toy or game called flying fish	2145	19th Aug. 1865	George Whitford.
Improvements in ice houses and in glaciaria or skating places, and in baths.	2292	6th Sept. 1865	Augustus William Parker.
Cricket, racket, tennis and foot balls	2328	11th Sept. 1865	Charles Huntley.
An improved billiard marker	2402	21st Sept. 1865	Newman Burfoot Thoyts.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAMES, &c.—*continued.*			
Improvements in the construction of billiard tables, and improved apparatus for ascertaining the degree of elasticity of the cushions and the strength of the cloth. (*Communicated by Eugene Ponsson, junior.*)	2606	10th Oct. 1865	William Edward Gedge.
An improved apparatus for gymnastic exercises - (*Partly communicated by Edwin Faxon Bacon.*)	2767	26th Oct. 1865	George Washington Bacon.
Implements or articles employed in the game of indoor croquet.	2821	2nd Nov. 1865	Henry Jones.
Manufacture of cushions for billiard tables - -	2874	7th Nov. 1865	George Alexander Smith.
Furnishing and adapting ordinary tables for playing billiards.	3186	9th Dec. 1865	Henry Snart Marshall.
An improvement in swings - - - - (*Communicated by Julius Walter Sperry.*)	3229	14th Dec. 1865	Charles Pomeroy Button.
Machines called roundabouts - - - -	3271	19th Dec. 1865	George Stephen Harrison. Stephen Eversfield Featherstone.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for billiard balls.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for swings, skipping ropes, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
GAS, GASOMETERS, HOLDERS AND RETORTS; OXYGEN.			
Improvements in the manufacture of oxygen gas and in treating and economizing the residual products of the said manufacture - -	5	2nd Jan. 1865	John Frederick Parker. Joseph Tanner.
Producing gases and vapour in a heated state -	127	14th Jan. 1865	James Young.
Apparatus for charging and drawing gas retorts and for other purposes - - - -	142	17th Jan. 1865	Sealy James Best. James John Holden.
Improvements in lining the sides and bottoms of puddling furnaces and other furnaces employed in the manufacture of iron or steel, and in mending, repairing and fettling the sides and bottoms of the said puddling and other said furnaces. (*gas furnaces.*)	224	26th Jan. 1865	Robert Mushet.
Purification of coal gas - - - - -	226	26th Jan. 1865	Alexander Angus Croll.
An improved method of and improvements in apparatus for extracting gases from mineral oils, and employing the same for illuminating purposes.	344	7th Feb. 1865	William Sim.
Apparatus for distilling petroleum and other volatile liquids and for making gas. (*Communicated by George Hughes Sinclair Duffus.*)	447	16th Feb. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS, &c.—*continued.*			
Converting coal oil into gas suitable for use as an illuminator.	528	24th Feb. 1865	James Nicholas.
An improved method of extracting gases from mineral oils, and in employing the same for illuminating and heat producing purposes, and in the machinery or apparatus connected therewith.	549	27th Feb. 1865	William Sim.
An improvement in carburetting gas, also in the preparation of hydrocarbons for carburetting gas, and improved methods of treating alkali which has been used to purify coal oils, shale oils, petroleum and other mineral oils.	596	3rd March 1865	William Renwick Bowditch.
Apparatus for vaporizing hydrocarbon liquids for illuminating and heating. (*Communicated by Jonathan Griffen.*)	717	14th March 1865	George Tomlinson Bousfield.
Constructing gasometers, tanks, casks and similar vessels.	781	21st March 1865	Charles Hill Pennycook.
Apparatus for the distillation of coal and peat, and such other substances as are or may be used for the manufacture of solid and liquid volatile hydrocarbons, or for the manufacture of the said hydrocarbons and coke. (*See* "DISTILLING.")	796	22nd March 1865	William Mattieu Williams.
Improvements in the manufacture or preparation of materials for and in their application to lighting and heating purposes, also in apparatus used for the same. (*Communicated by Auguste de Peyronny.*)	855	25th March 1865	William Clark.
Means of and apparatus for increasing the illuminating power of hydrocarbons, oils and gases. (*Communicated by Thomas Say Speakman.*)	980	6th April 1865	George Davies.
Improvements in the mode of and apparatus for purifying smoke, which improvements are also applicable to other purposes in which gas or vapour is to be separated from substances combined therewith or held in suspension therein. (*Communicated by Joseph Bourgeois and Jules Mathieu.*)	1001	7th April 1865	Michael Henry.
Manufacture of coal gas - - - -	1266	6th May 1865	Israel Swindells.
An improved method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	1287	9th May 1865	William Jackson.
Obtaining certain compounds of nitrogen and of sulphur - - - - - - (*See* "ALKALIES.")	1385	19th May 1865	Thomas Richardson. Martin Diederich Rücker.
Apparatus for washing or purifying coal gas, and for producing ammoniacal water therefrom.	1386	19th May 1865	William Davey.
Improvements in the retorts used in the manufacture of gas and in other distillations, which improvements are adaptable to evaporating vessels.	1424	25th May 1865	John Ambrose Coffey.
Improvements in the means of carburetting or treating aëriform fluids for lighting and heating purposes, and in apparatus for the same. (*Communicated by Henri Auguste Georges du Vergier Marquis de la Roche Jaquelein.*)	1507	1st June 1865	William Clark.
An improved method and apparatus for distilling coal shale and other carbonaceous substances. (*Communicated by John Howarth.*)	1553	7th June 1865	James Howarth, M.D.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS, &c.—*continued.*			
A new material to be used in the purification of heating and lighting gases.	1591	12th June 1865	John Thomas.
Furnaces - - - - - - (*producing gas.*) (*Communicated by Felix Alexandre Testud de Beauregard.*)	1620	15th June 1865	Richard Archibald Brooman.
Means and apparatus for generating motive-power (*generating gases.*) (*Communicated by Jules Gros.*)	1656	20th June 1865	William Clark.
An improved pulping and compressing machine, for the treatment of peat as a fuel, and gas for illuminating purposes - - - -	1703	26th June 1865	Charles Worssam. George Evans.
Improvements in the manufacture of gas retorts and other articles made of fire clay, and in furnaces for burning the same and for other purposes.	1737	30th June 1865	William Schofield.
Means of obtaining or producing oxygen applicable to various useful purposes.	1780	6th July 1865	Hermann Beigel.
An improved portable pocket gas generator or gazogene. (*See* "AËRATING.")	1795	7th July 1865	Augustin François Morelle.
Improvements in the production of artificial light and in the apparatus connected therewith.	1809	8th July 1865	Isham Baggs.
Treating ammoniacal liquors for purifying gas and other purposes.	1818	10th July 1865	George Thomas Livesey.
An improved process for obtaining oxygen - (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Improvements in the production of gases from aqueous vapour, and in the application thereof to heating purposes.	1841	12th July 1865	Harrison Blair.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*producing gases.*)	1952	27th July 1865	Henry Sherwood.
Improvements in carburetting coal gas and manufacturing artificial gas, and in the machinery or apparatus employed therein.	2095	12th Aug. 1865	Henry Woodward.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*applied to gas-holders.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
Method of and apparatus for treating peat and other plastic materials - - - (*obtaining gas.*)	2219	29th Aug. 1865	Hull Terrell. Thomas Don.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products, from wood. (*obtaining gas.*) (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron -	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Improvements in generating illuminating gas, and in the machinery or apparatus employed therein. (*Communicated by Erasmus Allington Pond, Mark Staples Richardson and Edmund Alonzo Morse.*)	2435	23rd Sept. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS, &c.—*continued.*			
Improved apparatus for generating illuminating gas (*Communicated by John Irwin.*)	2439	23rd Sept. 1865	Alfred Vincent Newton.
An improved mode of decarbonizing retorts (*used for making gas.*) (*Communicated by George Washington Edge.*)	2465	26th Sept. 1865	Alfred Vincent Newton.
Improvements in obtaining and applying sulphurous acid and in apparatus used therein.	2483	28th Sept. 1865	Rees Reece.
Improvements in producing and combining gases to be used for heating purposes, and in the construction of retorts for producing and combining such gases.	2527	2nd Oct. 1865	Silas Covell Salisbury.
Apparatus for decomposing and superheating liquids, vapours and gases. (*producing oxygen.*) (*Communicated by Gustave Renard and Amedée Lipman.*)	2535	3rd Oct. 1865	Richard Archibald Brooman.
Manufacture of gas	2620	11th Oct. 1865	James Crutchett.
Improvements in the manufacture of inflammable gases and in their application to useful purposes.	2719	21st Oct. 1865	Isham Baggs.
An improved mode of purifying gas	2818	1st Nov. 1865	Charles Henry Wood. Edward Louis Barret.
Improvements in generating and applying certain gases, and in apparatus to be employed therein.	2833	2nd Nov. 1865	James Webster.
A new or improved process for the manufacture of oxygen	2934	14th Nov. 1865	Jules Theodore Anatole Mallet.
Improvements in the production or manufacture of gas for heating or illuminating, and in the retorts and apparatus employed in such manufacture.	2965	17th Nov. 1865	James Harbert.
Apparatus for the production of hydrocarbon or other vapours, parts of which apparatus are also applicable to measuring gaseous or fluid matter.	2972	18th Nov. 1865	Frederick Wilkins.
Treating the oxide of iron residues of gas purifying, in order principally to extract sulphur therefrom.	3099	2nd Dec. 1865	Thomas Bell.
Compounds for deodorizing and disinfecting (*purifying gas.*)	3355	28th Dec. 1865	Edward Vincent Gardner. Louis Ash Israel. Henry Ash Israel, jun^{r}.
For carbonic acid gas, *see* "AËRATING." For nitrous acid gas, *see* "ACIDS."			
GAS AND OTHER BURNERS AND REGULATORS; GAS FITTINGS; LIGHTING GAS; PREVENTING ESCAPE OF GAS.			
Taps	67	9th Jan. 1865	Joseph Calkin.
Improved pincers for gas and other pipes (*Communicated by Jules Chartier.*)	86	11th Jan. 1865	William Edward Gedge.
Street and other lamps and lanterns	151	18th Jan. 1865	John William Gregg.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS BURNERS, &c.—*continued.*			
Improvements in shaping and forging metals and in the machinery and apparatus employed therein. (*"tees," "elbows," &c.*)	165	19th Jan. 1865	James Alfred Shipton. Robert Mitchell.
Petroleum and coal oil burners and glasses	201	23rd Jan. 1865	Michael Alexander Dietey.
Improvements in effecting the combustion of fuel in the furnaces of steam-boilers and the fire-places of stoves, and of gas in gas-burners, and in apparatus connected therewith.	311	4th Feb. 1865	Frank Clarke Hills.
An improved fluid valve	547	27th Feb. 1865	Comyn Ching.
Gas-burners	568	28th Feb. 1865	Thomas Slocombe Hall.
An improved mode of and apparatus for ascertaining and indicating the presence of explosive gases.	668	9th March 1865	George Frederick Ansell.
Apparatus for vaporizing hydrocarbon liquids for illuminating and heating. (*Communicated by Jonathan Griffen.*)	717	14th March 1865	George Tomlinson Bousfield.
Argand gas-burners	809	22nd March 1865	William Morrant Baker.
Improvements in the manufacture or preparation of materials for and in their application to lighting and heating purposes, also in apparatus used for the same. (*Communicated by Auguste de Peyronny.*)	855	25th March 1865	William Clark.
Certain improvements in gas-burners	876	28th March 1865	François Adolphe Mocquard.
Means and apparatus employed for illuminating lighthouses.	945	4th April 1865	John Richardson Wigham.
Apparatus for regulating the supply of gas	972	5th April 1865	Charles Esplin.
Means of and apparatus for increasing the illuminating power of hydrocarbons, oils and gases. (*Communicated by Thomas Say Speakman.*)	980	6th April 1865	George Davies.
Gas regulators and valves for the same (*Communicated by Charles Massey Cresson.*)	1109	20th April 1865	Francis Wise.
Certain improvements in apparatus for illuminating (*Communicated by Monsieur Louis Joseph Asselin de Monnerville.*)	1269	8th May 1865	Peter Armand Le Comte de Fontaine Moreau.
Gas-burners and chimneys (*Communicated by William Resor.*)	1334	13th May 1865	William Clark.
An improved gas-burner	1437	25th May 1865	George Bray.
An improved burner for gas and other lighting apparatus.	1494	31st May 1865	Hypolite Monier.
Lamp burners and parts connected therewith (*Communicated by Rufus Spaulding Merrill and William Lincoln.*)	1631	16th June 1865	John Henry Johnson.
Construction of taps or valves (*for gas.*) (*Communicated by Ernest Alexandre Ribert.*)	1655	20th June 1865	Edward Griffith Brewer.
Gas-burners	1658	20th June 1865	John Scholl.
Apparatus used in supplying gas to burners	1687	23rd June 1865	Henry Saxon Snell. Frederick Edward Thomas.
An improved method of and apparatus for burning liquid hydrocarbons, and the employment thereof for heating purposes. (*Communicated by Alexandre Schpakofsky and Nicolas Stange.*)	1711	27th June 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS BURNERS, &c.—*continued.*			
Lamps	1862	15th July 1865	Anson Henry Platt.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases for Bunsen's burners.*)	1952	27th July 1865	Henry Sherwood.
Gas-burners	1968	29th July 1865	Ferdinand Küp.
Signals for railways	2009	3rd Aug. 1865	Edward Samuel Horridge.
Wick holders or burners for lamps	2024	4th Aug. 1865	Emil Wild. Wilhelm Wessel.
Gas-burners	2094	12th Aug. 1865	Henry Woodward.
An improvement in gas-burners	2179	24th Aug. 1865	Giacomo Bagnagatti.
Improvements in apparatus by means of which certain liquids, common air and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes.	2184	25th Aug. 1865	Edwin Augustus Curley.
Certain improvements in the method of lighting gas and in apparatus connected therewith	2308	9th Sept. 1865	Alexander Mackie. James Paterson.
Means and apparatus applicable to the lighting and reviving of fires.	2329	11th Sept. 1865	Charles James Webb.
Manufacture of submarine lamps	2458	26th Sept. 1865	John Sampson Starnes.
Improvements in connections for and in stopping pipes used for conveying water and gas, and for other like purposes, and in preventing leakages in the said pipes, and in apparatus employed therein.	2503	29th Sept. 1865	Charles Forster Cotterill.
Paraffine lamps	2616	10th Oct. 1865	Daniel Gallafent.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*making gas-joints.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improved apparatus for burning petroleum and other volatile oils.	2829	2nd Nov. 1865	Louis Pebeyre.
Improvements in generating and applying certain gases, and in apparatus to be employed therein.	2833	2nd Nov. 1865	James Webster.
Improvements in cocks for steam, water, air and gases at high pressures, and also in gauge cocks and water gauges for boilers, and sediment tubes for cocks and pipes.	2990	21st Nov. 1865	Samuel Bennett.
Lamps, lanterns and gas fittings	3089	2nd Dec. 1865	William Johnston.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes (*propelling gas.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
A new process of lacquering and finishing metal goods, such as gas fittings, and other like articles usually finished by bronzing and lacquering.	3264	18th Dec. 1865	Joseph Harcourt.
An improved gas-burner (*Communicated by James Stratton.*)	3303	21st Dec. 1865	George Davies.
Improved apparatus for burning combustible vapor (such as that from naphtha or coal oil) for heating, cooking and lighting purposes. (*Communicated by James Stratton.*)	3317	22nd Dec. 1865	George Davies.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GAS BURNERS &c.—*continued.*			
Improvements in friction matches, in apparatus for using them, and in adapting them for lighting lamps. (*Communicated by Philos Blake Tyler.*)	3383	30th Dec. 1865	William Edward Newton.
For gas pipes, *see* "PIPES."			
GAUGES, SAFETY PLUGS, WATER LEVEL INDICATORS.			
Improved apparatus for preventing the explosion of steam-boilers.	305	3rd Feb. 1865	John Westerby.
Improvements in washing-machines and in apparatus connected therewith. (*working index pointers.*)	481	21st Feb. 1865	Robert Willison.
An improved safety apparatus for steam-boilers -	1066	15th April 1865	John Minton Courtauld.
A combined safety valve regulator, pressure gauge, water indicator, alarm and "blow off" for steam generators. (*Communicated by Peter Riordan.*)	1305	11th May 1865	John Henry Johnson.
Water gauges and cocks - - - -	1330	13th May 1865	Alexander Weir.
Apparatus for indicating the pressure of steam or liquids in gauges, and for signalling.	1497	31st May 1865	Frederic Newton Gisborne.
Certain improvements on "Bourdon's" steam pressure gauge.	1509	1st June 1865	Thomas Edwin Wright.
A new or improved apparatus for supplying disinfecting liquids to water-closets, urinals and other places requiring the same.	1879	19th July 1865	Charles Nicholas.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles. (*gauges.*)	2613	10th Oct. 1865	Arthur Nicholls.
Improvements in cocks for steam, water, air and gases at high pressures, and also in gauge cocks and water gauges for boilers, and sediment tubes for cocks and pipes.	2990	21st Nov. 1865	Samuel Bennett.
Certain improvements in water gauges to be employed in connection with steam-boilers -	3026	25th Nov. 1865	James Draper. William Leech.
Apparatus for registering the speed of machinery, and apparatus for registering the pressure of steam and other fluids - - - -	3077	30th Nov. 1865	James Lee Norton. James Landless.
GLASS; APPLICATIONS OF GLASS.			
Improvements in the manufacture of oxygen gas and in treating and economizing the residual products of the said manufacture - - - (*residuum for glass makers.*)	5	2nd Jan. 1865	John Frederick Parker. Joseph Tanner.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GLASS—*continued.*			
Manufacture of enamelled glass to render it more useful in photographic art.	12	3rd Jan. 1865	William George Helsby.
Engraving upon crystal and silicious substances - (*Communicated by Charles Raphael Maréchal and Cyprien Marie Tessié du Motay.*)	88	11th Jan. 1865	Richard Archibald Brooman.
Certain improvements in rendering soundless furniture and other articles for domestic purposes. (*glass articles.*)	196	23rd Jan. 1865	Adolphe Drevelle.
Manufacture of ornamented articles of glass -	497	22nd Feb. 1865	Thomas George Webb.
Manufacture of buttons - - - - (*Communicated by Joseph Edouard Mittler, sen^{r}.*)	594	2nd March 1865	William Clark.
Cotton gins - - - - - -	673	10th March 1865	Evan Leigh.
Improvements in wine glasses and in stands or holders for the same.	693	11th March 1865	James Murdoch Napier.
Improvements in the manufacture of looking glasses or mirrors, and in apparatus employed therein. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	786	21st March 1865	John Henry Johnson.
An improvement or improvements in ornamenting articles made of glass.	868	28th March 1865	Joseph Williams.
An improved mode of preventing corrosion or staining of the surface of glass.	984	6th April 1865	William Bartram Richards.
Protecting letters, numerals and ornamental designs on glass.	1111	21st April 1865	David Simson Buchanan.
An improved lamp or signal for calling cabs or other vehicles, by day and night. (*partly composed of coloured glass.*)	1113	21st April 1865	Edward Wilson.
Improvements in photographing upon wood, and in the preparation of wood, canvas, silk, glass and other substances, for the purpose of receiving and retaining impressions.	1174	26th April 1865	William Henry Smith.
Improved contrivances to facilitate the arrangement of flowers and leaves.	1187	28th April 1865	Thomas Charles March.
Manufacture and application of glass and other vitreous compositions - - - - -	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
Superceding the unsightly chimney pots now in use	1400	22nd May 1865	Robert Haswell.
A new or improved compound spherical rest for ornamental turning lathes. (*or for engraving glass.*)	1441	25th May 1865	Thomas Hallam Hoblyn.
Improvements in securing roof lamp glasses of railway and other carriages, which improvements are also applicable to lighting the decks of ships, and other situations.	2026	4th Aug. 1865	Thomas Stanley Raney.
Improvements in the ornamentation of glass and and in the applications of glass so ornamented. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	2038	5th Aug. 1865	John Henry Johnson.
Improvements in preparing and treating gunpowder in order to render the same unexplosive and to protect it from damp. (*mixing glass with gunpowder.*)	2057	8th Aug. 1865	James Gale, jun^{r}.
Looms for weaving - - - - (*applying glass as coating to picker spindles.*)	2073	10th Aug. 1865	John Ingham. Henry Ingham. James Broadley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GLASS—*continued.*			
Gas-burners - - - - - - - (*applying a bead of glass to steady flame.*)	2094	12th Aug. 1865	Henry Woodward.
Furnaces to be used in the manufacture of glass and iron and steel, and for other like purposes. (*Communicated by Henning Boetius.*)	2105	15th Aug. 1865	John Frederick Boetius.
An improved liquid composition for cleansing, scouring and bleaching textile animal, mineral and vegetable substances - - - - (*cleansing glass.*)	2440	23rd Sept. 1865	Gustave Emile Rolland. Emile Léon Rolland.
Tiles for roofing - - - - - - (*with edges of glass.*)	2693	18th Oct. 1865	John Taylor, jun^{r}.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water-proof. (*surfacing glass.*) (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
An improved mode of applying photographic paper pictures to glass.	3092	2nd Dec. 1865	Anna Josephine Wright.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other material. (*manufacture of glass.*)	3243	14th Dec. 1865	William Robinson.
See also "BOTTLES."			
GLOVES.			
Sewing-machines - - - - - (*for making gloves.*) (*Communicated by Edmond Philippe and Dominique Gance.*)	304	3rd Feb. 1865	William Clark.
Improvements in boxing, fencing and cricket gloves, and in cricket pads or guards.	382	10th Feb. 1865	Henry Emanuel.
Sewing-machines - - - - - (*sewing gloves.*)	2649	13th Oct. 1865	George Baldwin Woodruff.
GOVERNORS AND INDICATORS OF SPEED AND POWER FOR STATIONARY ENGINES AND MACHINERY; STARTING, STOPPING AND REVERSING APPARATUS; MACHINERY-BREAKS.			
Machinery for opening and carding cotton and other fibrous materials. (*reversing gear.*)	90	11th Jan. 1865	Robert Tempest.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GOVERNORS, &c.—*continued.*			
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Apparatus for rinsing and drying by centrifugal force. (*Communicated by Félix Monmon and Auguste Racinet.*)	604	4th March 1865	Henri Adrien Bonneville.
Certain improvements in lap machines employed in preparing cotton and other fibrous substances. (*stopping the machines.*)	756	18th March 1865	Thomas Ogden.
Weft stop motions for looms - - -	759	18th March 1865	Edwin Pilling. John Harper.
Certain improvements in governors or regulators for steam or other motive-power engines -	991	7th April 1865	Samuel Smith. John William Jackson.
Machinery for cutting files - - - -	1013	8th April 1865	Thomas Turton.
Certain improvements in looms for weaving -	1070	17th April 1865	Mark Smith.
Certain improvements in looms for weaving -	1086	19th April 1865	James Edward Hyde Andrew.
Machinery for carding cotton and other fibrous substances and for doubling yarns - -	1094	20th April 1865	James Hall. William Dunkerley. Samuel Schofield.
Engines, machinery and implements employed in ploughing and tilling land.	1123	21st April 1865	Collinson Hall.
Improved means or apparatus for gaining or acquiring motive power.	1156	25th April 1865	Claude Jacquelin, jun^{r}.
File cutting machines - - - - -	1172	26th April 1865	James Dodge.
Certain improvements in machinery or apparatus for rolling or shaping metallic articles of irregular form, such as "file-blanks" and similar articles. (*stopping the rollers.*)	1190	28th April 1865	Edward M^{c}Nally.
Improvements in steam-engines, relating to valve motions, governor and drain pipes - -	1195	29th April 1865	Andrew Wyllie. John M^{c}Farlane Gray.
Means and apparatus for regulating the power and velocity of machinery or apparatus in motion.	1230	2nd May 1865	Charles William Siemens.
Improvements in steam generators and engines and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Printing machines - - - - - (*throwing out of gear.*)	1344	15th May 1865	Robert Harrild. Horton Harrild.
Screw gills or hackle frames - - - - (*throwing off the belts.*)	1419	24th May 1865	Thompson Beanland.
Certain improvements applicable to spinning, weaving and knitting machines. (*throwing out of gear.*) (*Communicated by Charles Arthur Radiguet and Jean Adolphe Lecène.*)	1440	25th May 1865	William Edward Newton.
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick Tolhausen.
An improvement in steam-engine governors - (*Communicated by Estus Lamb and Henry Stephen Mansfield and Lyman Arnold Cook.*)	1561	7th June 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GOVERNORS, &c.—*continued.*			
Improvements in and applicable to machinery for doubling and drawing cotton and other fibrous substances. (*stopping the carriage.*)	1739	30th June 1865	François Delamare-Debouteville.
Improvements in apparatus for giving signals on board ships, and which are also applicable for other purposes.	1772	5th July 1865	Frederic Newton Gisborne.
Regulating or controlling the power employed in actuating sewing and other machines of a light nature.	1835	11th July 1865	Benjamin Fothergill.
Machinery for winding yarn cops - - - (*stop lever.*)	2297	7th Sept. 1865	William Oldham.
Machinery for excavating earth - - - (*disconnecting the gearing.*)	2403	21st Sept. 1865	John Bostock Hulme.
Construction of presses for hay, cotton, hemp and other substances. (*throwing in and out of action.*) (*Communicated by Thomas Gannon and Thomas Bolton Webster.*)	2454	25th Sept. 1865	Alfred Vincent Newton.
Machinery or apparatus for preparing and spinning cotton and other fibrous materials. (*buffers or stops.*)	2476	27th Sept. 1865	William Tatham.
Steam-engines - - - - - - (*reversing gear.*)	2479	27th Sept. 1865	John Rodger Arnoldi.
Weft winding machines both for winding on bobbins and cops, also for a shuttle to hold the cop when weaving. (*stopping the spindles.*)	2519	30th Sept. 1865	William Longbottom.
File cutting machines - - - - - (*arresting the motion.*)	2548	4th Oct. 1865	John Dodge.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor. (*reversing action of propellers.*)	2563	5th Oct. 1865	Robert William Fraser.
Centrifugal governors - - - - - (*Communicated by Thomas Richard Pickering.*)	2639	12th Oct. 1865	William Edward Newton.
Transmitting motion to propelling shafts - - (*reversing action.*) (*Communicated by James Buchanan Eads.*)	2807	31st Oct. 1865	William Edward Newton.
Machinery or apparatus for reeling silk, cotton or other fibrous threads, in the form of skeins. (*stop motion.*)	2826	2nd Nov. 1865	Enoch Rushton.
Means of connecting drums or pulleys with their shafts or drivers. (*for starting machinery.*) (*Communicated by Leverett Homer Olmsted.*)	2933	14th Nov. 1865	William Clark.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes.	3093	2nd Dec. 1865	Thomas Aldridge Weston.
Improvements in reaping and mowing machines, part of which is applicable to machinery in general. (*reversing gear.*)	3142	6th Dec. 1865	Adam Carlisle Bamlett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING AND CRUSHING CORN, GRAIN, SEEDS, &c.; DRESSING FLOUR; MILLSTONES; DECORTICATING GRAIN, GRINDING DRIED MEAT.			
Apparatus for hulling grain and for reducing granular substances. (*separating semolina.*)	38	5th Jan. 1865	Gustav Adolph Buchholz.
Improvements in the grinding and feeding apparatus of mills for grinding corn and other substances, and in the combination of such mills with flour dressing machines - - - -	205	24th Jan. 1865	Richard Robert Riches. Charles James Watts.
An improvement in the construction of mills for grinding and pulverizing grain and other substances.	211	25th Jan. 1865	Anthony Stevenson.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads, and floating piers, gang ways, breakwaters and other similar structures, also as a motive-power. (*driving grinding machinery.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Mills for grinding wheat and other grain - -	333	6th Feb. 1865	William Pickford Wilkins.
Improvements in the means of decorticating grain and other seeds, and in apparatus for the same. (*Communicated by Gustave Lataste, Christophe Ours Bullot and Clément Montoille.*)	561	28th Feb. 1865	William Clark.
Improvements in machinery for grinding corn and other substances, and in horse gear or apparatus for driving the same, which horse gear is also applicable for driving other machinery.	652	8th March 1865	Frederick William Turner.
Combined apparatus for threshing, dressing and grinding grain and other agricultural produce.	742	16th March 1865	James Marshall.
Improvements in the treatment of meal and the dressing of flour, and the machinery and apparatus employed therein.	898	30th March 1865	William Savory.
Apparatus for grinding corn, seeds, minerals or any other substance ground on the flat surface of a stone - - - - - - -	1267	6th May 1865	John Hurt. Henry Tonge.
Treating rice and other grain for the manufacture of starch, also to prepare them for use as food and for other purposes.	1319	12th May 1865	Henry Ransford.
Flour mills - - - - - - - (*Communicated by Charles Simon Olivier Martineau, Narcisse Justine and Nicolas François Dumet-Prévost.*)	1348	15th May 1865	Henri Adrien Bonneville.
Machinery for cleaning and decorticating rice and other grains and seeds.	1777	5th July 1865	Joseph Wace Gray.
Mills for grinding, of the description known as Felton's American Mill - - - - -	2264	2nd Sept. 1865	William Barford. Thomas Perkins.
Mills for crushing and grinding wheat and other grain.	2399	20th Sept. 1865	John Tye.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING CORN, &c.—*continued.*			
Improvements in grinding wheat and other grain, and in apparatus for drying and improving the condition of damp wheat or other grain.	2485	28th Sept. 1865	Benjamin Wren.
Machinery or apparatus for preparing and supplying food for cattle. (*corn crushers.*)	2514	30th Sept. 1865	Robert Willacy.
Apparatus for grinding corn, seeds and minerals -	2583	7th Oct. 1865	James Priestley. William Whitworth. John Sutcliffe.
Preparation of meat for food - - - (*grinding meat.*)	2677	17th Oct. 1865	Arthur Hill Hassall, M.D.
Constructing and mounting or hanging millstones	2692	18th Oct. 1865	William Henry Parker.
Machinery for dressing millstones - - - (*Communicated by Eleazer A. Paine.*)	2817	1st Nov. 1865	Alfred Vincent Newton.
Mounting and driving millstones - - -	2839	3rd Nov. 1865	Richard Smith, jun^{r}.
An improved mode of ventilating millstones - (*Communicated by Alexandre Désiré Lagoguey.*)	2924	13th Nov. 1865	Henry Edward Newton.
An improved machine for taking off the fibre from cotton seed and cleaning it. (*using grindstones.*)	2956	17th Nov. 1865	William Henry Cope.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*forming millstones.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Apparatus employed in grinding corn and other substances capable of being ground by millstones.	3126	5th Dec. 1865	Edward Alfred Cowper.
Means of feeding meal to the bolting reel in flouring mills.	3385	30th Dec. 1865	William Frazer Cochrane.
GRINDING AND CRUSHING MINERALS, CLAY, FIBROUS PLANTS, &c.; BREAKING STONE.			
An improvement in the construction of mills for grinding and pulverising grain and other substances. (*cement and charcoal.*)	211	25th Jan. 1865	Anthony Stevenson.
Improvements in mortar mills, applicable also to grinding other substances.	252	28th Jan. 1865	John Raines.
Improvements in machinery for grinding corn and other substances, and in horse gear or apparatus for driving the same, which horse gear is also applicable for driving other machinery.	652	8th March 1865	Frederick William Turner.
Improvements in the manufacture of looking glasses or mirrors, and in apparatus employed therein. (*grinding platinum.*) (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	786	21st March 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING MINERALS, &c.—*continued.*			
Improved apparatus for collecting or receiving pulverized flint or dust. (*See* "VENTILATION.")	909	31st March 1865	Elias Leak.
Treating wool in order to cleanse it from burrs, seeds and other foreign matters - -	1042	12th April 1865	Henry Sikes. George Jarmain.
Paints or compositions for coating and preserving metallic and other substances from oxidation and decay - - - - - -	1154	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
Apparatus for disintegrating vegetable and animal substances.	1168	26th April 1865	François Dominique Pierre Jacques Cabasson.
Machinery for reducing friable substances to powder	1178	27th April 1865	Henry Walker Wood.
Apparatus for grinding corn, seeds, minerals or any other substance ground on the flat surface of a stone - - - - - -	1267	6th May 1865	John Hurt. Henry Tonge.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*enfilming crushing rollers.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Improvements in reducing vegetable fibre to pulp and in machinery employed therein.	2002	2nd Aug. 1865	William Wharton Burdon.
Improvements in preparing and treating gunpowder in order to render the same unexplosive and to protect it from damp. (*crushing glass to mix with gunpowder.*)	2057	8th Aug. 1865	James Gale, jun^{r}.
Improved machinery for mixing or grinding ointment, paints, drugs and other substances.	2290	6th Sept. 1865	Thomas Charles Gibson.
Apparatus for grinding corn, seeds and minerals -	2583	7th Oct. 1865	James Priestley. William Whitworth. John Sutcliffe.
Machinery employed for crushing, amalgamating and washing gold quartz and other minerals or matters containing gold or other metal. (*Communicated by James Hart.*)	2643	13th Oct. 1865	William Halse Gatty Jones.
Machinery for crushing or reducing stone, quartz, emery and other mineral substances - -	2913	13th Nov. 1865	George Henry Goodman. Edward Bow.
Improved machinery to be used in the manufacture of paper. (*grinding wood.*) (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Apparatus employed in grinding corn and other substances capable of being ground by millstones. (*drugs, paints, coprolites, cement, &c.*)	3126	5th Dec. 1865	Edward Alfred Cowper.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - -	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
Improvements in floor cloths and similar composition fabrics, in the manufacture of such fabrics, and in machinery employed therein - - (*breaking up or reducing composition materials.*)	3370	29th Dec. 1865	John Howard Kidd. James Chadwick Mather.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING AND SHARPENING; FLAT GRINDING AND POLISHING; GRINDING SURFACES; EMERY, SAND AND GLASS PAPERS AND CLOTHS.			
Apparatus for cleansing and polishing knives -	26	4th Jan. 1865	George Kent.
Improved means or apparatus for facing flags or smoothing the surface of stones - -	154	18th Jan. 1865	James Coulter. Herbert Harpin.
Improvements in shaping and forging metals and in the machinery and apparatus employed therein (*planishing and finishing.*)	165	19th Jan. 1865	James Alfred Shipton. Robert Mitchell.
Certain improvements in machinery and appliances for the manufacture of nails, pins and rivets - (*pointing.*)	785	21st March 1865	Charles Farmer. Thomas Turner.
Certain improvements in machinery or apparatus used in carding cotton or other fibrous substances (*sharpening the wires.*)	887	29th March 1865	Evan Leigh. Frederick Allen Leigh.
Means or apparatus for effecting the cleansing and polishing of forks	950	4th April 1865	Charles Martin.
An improved machine for rounding and polishing shot, shell and other balls or spheres. (*Communicated by William Davis Winsor.*)	952	4th April 1865	William Clark.
New or improved apparatus for separating or sorting and washing ores, minerals, coal, emery and other substances in a granular or pulverulent state. (*Communicated by Charles Prieger and Theodor Hundt.*)	963	5th April 1865	Henry Simon.
An improved mode of pointing or tapering the ends of metallic rods or wires, applicable to the manufacture of pins, needles, and other articles where points or tapered ends are required. (*Communicated by Henri Cauderay.*)	976	6th April 1865	Edwin Henry Newby.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding-engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Improvements in finishing and polishing metal tubes and rods, and in apparatus or machinery to be employed therein.	1229	2nd May 1865	Thomas Allcock.
Improved apparatus for cutting, turning and smoothing metal pipes, and the surfaces of bolts, rods or spindles - - - -	1311	11th May 1865	George Mountford. Edward Worroll.
Improvements in vessels for containing blacking, polishing oils and other similar materials, and in apparatus connected therewith.	1327	12th May 1865	Thomas Davis.
Machinery for the manufacture of hinges - - (*polishing the metal strips.*) (*Communicated by Jean Baptiste Evrard and Jean Pierre Boyer.*)	1335	13th May 1865	William Clark.
Apparatus for polishing, smoothing or facing, especially applicable to lithographic stones.	1668	21st June 1865	Charles Henry Gardner.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING, SHARPENING, &c.—*continued.*			
Regulating or controlling the power employed in actuating sewing and other machines of a light nature.	1835	11th July 1865	Benjamin Fothergill.
Improvements in the manufacture of velvets, plushes and other pile fabrics, and in the machinery or apparatus connected therewith. (*keeping the knife sharpened.*)	1937	26th July 1865	Jules Bélicard the younger.
Machinery or apparatus for the manufacture of needles.	2074	10th Aug. 1865	Chauncey Orrin Crosby.
Machinery for grinding, dressing, smoothing or polishing flags and stones, without the use of the ordinary cutting tools - - - -	2411	21st Sept. 1865	Benjamin Chaffer. James Thompson. Charles Thompson.
Apparatus for grinding cards of carding engines -	2518	30th Sept. 1865	Samuel Faulkner.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*making glass and emery cloth.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Apparatus for polishing and brushing - -	2655	14th Oct. 1865	James Lamb Hancock.
Machinery for the manufacture of fish hooks - (*pointing lengths of wire.*)	2673	17th Oct. 1865	Albert Fenton.
Certain new or improved machinery for the manufacture of nails. (*pointing.*)	2789	30th Oct. 1865	William Whittle.
Means and apparatus for finishing the soles of boots and shoes.	2861	6th Nov. 1865	Robert Flude.
Apparatus for grinding and pointing the cards on carding-engines.	2876	8th Nov. 1865	Robert Swires.
Machinery for crushing or reducing stone, quartz, emery and other mineral substances - -	2913	13th Nov. 1865	George Henry Goodman. Edward Bow.
Certain improvements in the manufacture of brushes - - - - - - - (*for polishing.*)	3060	29th Nov. 1865	James Stokes. Thomas Gray.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*forming grindstones.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Improved machinery for manufacturing sewing-machine needles - - - - - (*pointing the wire.*) (*Partly communicated by Joseph Thorne.*)	3143	6th Dec. 1865	Nahum Salamon. William John Lawrence Davids.
Machinery for grinding pit frame, crosscut, mill, carpenters' hand back and other saws, and other like metal surfaces where great truth and accuracy is required - - - -	3223	13th Dec. 1865	George Atkin. Edwin Atkin. Alfred Amos Atkin.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other material.	3243	14th Dec. 1865	William Robinson.
Improvements in the manufacture of floor cloth and in apparatus employed therein. (*grinding the surface.*)	3252	15th Dec. 1865	Frederick Walton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GRINDING, SHARPENING, &c.—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*for making emery, sand and glass papers.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
GUNPOWDER AND EXPLOSIVE COMPOUNDS; POWDER FLASKS.			
Improvements in the construction of shells, and in the explosive powder and fuse to be used therewith and for other purposes.	136	16th Jan. 1865	John Berkeley Cotter.
A self adjusting lever powder and shot charger for fire-arms.	302	3rd Feb. 1865	William Bartram.
An improved gunpowder - - - -	402	13th Feb. 1865	Louis Henry Gustavus Ehrhardt.
Preparing explosive compounds - - - (*Communicated by Wilhelm Gerhardt.*)	515	23rd Feb. 1865	Adolph Meyer. Moritz Meyer.
Preparation and treatment of gun cotton - -	1102	20th April 1865	Frederick Augustus Abel.
Certain improvements in the means employed for the prevention of the ignition of matter capable of ignition or combustion.	1515	2nd June 1865	Herbert Allman.
Gunpowder for mining and war purposes - - (*Communicated by Gustav Adolph Neumeyer.*)	1636	17th June 1865	August Klein.
Preparing and treating gunpowder - - -	1679	22nd June 1865	James Gale, jun^{r}.
Improvements in breech-loading fire-arms and in the charges and projectiles to be used therewith.	1894	20th July 1865	William La Penotière.
Compositions similar to gunpowder, for blasting, for use in ordnance and fire-arms, and for other purposes. (*Communicated by Pedro Nisser.*)	1939	26th July 1865	Edward Spicer.
Improvements in preparing and treating gunpowder in order to render the same unexplosive and to protect it from damp.	2057	8th Aug. 1865	James Gale, jun^{r}.
Preparing charges for fire-arms and for blasting -	2266	2nd Sept. 1865	Constant Reichen.
Improvements in rifling fire-arms, and in missiles or projectiles used in such, and in the machinery for the production of these improvements. (*an explosive composition.*)	2488	28th Sept. 1865	William Ellis Metford.
Improvements in preparing compounds of xylodine or gun cotton, and in the apparatus employed.	3163	8th Dec. 1865	Alexander Parkes.
An improved blasting powder - - - (*Communicated by Bernhard August Schäffer and Christian Friedrich Budenberg.*)	3206	12th Dec. 1865	Arnold Budenberg.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other material. (*forming gunpowder.*)	3243	14th Dec. 1865	William Robinson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUNPOWDER, &c.—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for powder horns.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
GUTTA-PERCHA AND INDIA-RUBBER. (*Preparing, Treating, Vulcanizing.*)			
Vulcanizing compounds and vulcanized fabrics - (*Communicated by Simon Stevens.*)	176	20th Jan. 1865	Benjamin Franklin Stevens.
Certain improvements in the manufacture of caoutchouc. (*Communicated by Messieurs Léon Désiré Innocent and François Perroncel.*)	398	11th Feb. 1865	Peter Armand Le Comte de Fontaine Moreau.
Improvements in cutting sheets of india-rubber and like materials into strips or threads, and in machinery or apparatus for the purpose.	656	9th March 1865	Benoni Collins.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Manufacture or treatment of india-rubber or gutta-percha, or compounds thereof, applicable to the production of stereotype plates and other forms.	1257	5th May 1865	Thomas Jefferson Mayall.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*enamelling gutta-percha.*) (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture or other substances to various purposes for which common glue or gelatine cannot now be used. (*as vulcanised rubber compounds.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
GUTTA-PERCHA AND INDIA-RUBBER AS APPLIED IN VARIOUS MANUFACTURES.			
Coverings of telegraphic conductors and cables -	98	12th Jan. 1865	John Fuller.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydraulic presses.	155	18th Jan. 1865	William Robert Foster.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Manufacture of boots, shoes, saddlery, harness and other articles. (*Communicated by Touissaint Landrin.*)	169	19th Jan. 1865	William Clark.
Certain improvements in rendering soundless furniture and other articles for domestic purposes.	196	23rd Jan. 1865	Adolphe Drevelle.
An improved elastic valve and high pressure and general tap - - - - - -	223	26th Jan. 1865	Stephen Sharp. Daniel Smith.
Permanent way of railways - - - -	275	31st Jan. 1865	Ewing Pye Colquhoun. John Pardoe Ferris.
Cushions for billiard and other like tables - -	316	4th Feb. 1865	James Lyne Hancock.
Improvements applicable to air cushions, mattresses, portable baths, and other like air inflated articles.	317	4th Feb. 1865	Arthur Henry Robinson.
Manufacture of boots, shoes and other coverings for the feet - - - - - - -	381	10th Feb. 1865	George Coles. James Archibald Jaques. John Americus Fanshawe.
Certain improvements in the manufacture of caoutchouc. (*Communicated by Messieurs Léon Désiré Innocent and François Perroncel.*)	398	11th Feb. 1865	Peter Armand Le Comte de Fontaine Moreau.
Waterproofing skins, hides and leather - -	413	14th Feb. 1865	George Harton.
Manufacture of boots, shoes and other like coverings for the feet. (*Communicated by Alexandre Leverd.*)	442	16th Feb. 1865	Richard Archibald Brooman.
An improved method of stopping bottles - -	464	18th Feb. 1865	John James Chidley.
An improvement in air tight jars for preserving eggs and fruits and such like articles of food.	546	27th Feb. 1865	George Kennedy Geyelin.
An improved means of securing and protecting the india-rubber rings of buffer springs of railway carriages, which invention is also applicable to air pump and valve seatings, and lids faced with india-rubber.	626	6th March 1865	William John Oliver.
Manufacture of shoes and other coverings for the feet - - - - - - - -	637	7th March 1865	Alexandre Eugene Adolphe Aubert. Gustave Eugene Michel Gerard.
Water-closet apparatus - - - -	648	8th March 1865	John Shanks.
Cricket, racket and tennis balls - - -	696	11th March 1865	Charles Huntley.
Mail and despatch bags and bags for other similar uses. (*Communicated by Thomas James Claxton.*)	733	15th March 1865	George Tomlinson Bousfield.
Improvements in the means and apparatus employed for treating timber with antiseptic or preservative fluids, also applicable to other purposes: (*india-rubber tanks.*)	734	16th March 1865	Samuel Bagster Boulton.
An improved apparatus combining a pencil shield and india-rubber.	746	17th March 1865	Charles Anthony Wheeler.
A new or improved machine for peeling or skinning almonds.	760	18th March 1865	James Henry Wathew.
Double acting lift and force pumps - -	943	4th April 1865	Charles Denoon Young.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Inkstands - - - - - - (*Communicated by Frank Oliver.*)	1089	19th April 1865	John Merritt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Invalid carriages - - - - - - (*Communicated by Auguste Quitzow.*)	1120	21st April 1865	Henry Edward Newton.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
A new or improved shoe or sandal for facilitating the art of swimming.	1145	24th April 1865	Aaron Atkins.
Machinery for sewing and embroidering - -	1167	26th April 1865	George Mumby.
Improvements in boring or excavating and blasting rocks and minerals, and in the treatment of the tools employed therein. (*a solution of india-rubber for waterproofing cartridges.*)	1192	28th April 1865	Julian Bernard.
Pickers for looms. (*of india-rubber.*)	1200	29th April 1865	George Pomeroy Dodge.
An improved manufacture of waterproof fabric - (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
Means and apparatus used for stretching woven fabrics and other materials, (*Communicated by Jules Ducommun.*)	1239	3rd May 1865	William Clark.
Manufacture or treatment of india-rubber or gutta-percha, or compounds thereof, applicable to the production of stereotype plates and other forms.	1257	5th May 1865	Thomas Jefferson Mayall.
Manufacture of elastic knitted or looped fabrics -	1275	9th May 1865	Robert Barlow Cooley.
Improvements in door and other mats, part of which improvements is also applicable to brushes and brooms, and to producing card or tooth surfaces employed in operating on various fibrous substances.	1283	9th May 1865	Thomas Jefferson Mayall.
Improvements in the manufacture of hose and other flexible tubing, which improvements are also applicable in uniting surfaces of india-rubber, gutta-percha or of compounds thereof, to each other, or to woven or other fabric or material for other purposes.	1309	11th May 1865	Thomas Jefferson Mayall.
An improvement in the drawing and other rollers used in preparing and spinning cotton and other fibrous materials and textile manufactures. (*Communicated by Amos Ashum Taylor.*)	1439	25th May 1865	William Edward Newton.
Manufacture of carpets and other terry and cut pile fabrics. (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
A new or improved method of obtaining motive-power, together with certain machinery or apparatus for applying the same - - -	1504	1st June 1865	David Hancock. Frederick Barnes.
Safety apparatus for steam-boilers - - -	1523	2nd June 1865	James Shepherd.
Umbrellas, parasols and sunshades - - -	1529	5th June 1865	John Stephenson.
An improved metallic stuffing box - - -	1555	7th June 1865	Victor Duterne.
An improved material for stuffing seats, cushions, mattrasses and other articles. (*Communicated by Emile Rousseau.*)	1800	7th July 1865	Thomas Frederick Henley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Improvements in steam carriages and in adapting wheels for common roads to railways. *(Communicated by Joseph Alphonse Loubat.)*	1821	10th July 1865	Richard Archibald Brooman.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouse.
Construction of springs for railroad and other carriages.	1860	15th July 1865	John Crawford Walker.
An improved pouch or receptacle for holding tobacco and other similar purposes.	1871	18th July 1865	William Antil Richards.
Covers for rollers used in spinning cotton - -	1901	21st July 1865	George Taylor. Joseph Cromley.
Compounds for waterproofing and insulating purposes.	1962	29th July 1865	Frederick Augustus Abel.
Certain new and useful improvements in the construction of insts. *(Communicated by Elias Ruemmely.)*	1971	31st July 1865	Thomas Drew Stetson.
An improved method of forming india-rubber, gutta-percha or such like balls.	1983	2nd Aug. 1865	Alfred Ford.
Construction of travelling and other bags - -	2001	2nd Aug. 1865	Herman Frankenburg.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mitholland.
Printing machines - - - - - -	2056	8th Aug. 1865	William Rock.
Applying elastic material to boots, shoes and such like coverings for the feet - - - -	2132	15th Aug. 1865	Matthew Cartwright. Augustus Dale.
Manufacture of keys for pianofortes and other musical instruments requiring such keys - -	2150	22nd Aug. 1865	Daniel George Staight. Stephen Staight.
Brushes - - - - - - -	2230	30th Aug. 1865	George Smith. Charles Ritchie.
Apparatus for stopping bottles - - -	2240	31st Aug. 1865	William Thomas Read.
Cricket, racket, tennis and foot balls - -	2296	11th Sept. 1865	Charles Huntley.
Saddles and harness - - - - - *(Communicated by Chevalier Achille Angelini.)*	2306	13th Sept. 1865	William Clark.
Application of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement.	2433	22nd Sept. 1865	Matthew Cartwright.
An improvement in the manufacture of waterproof soles for boots and shoes.	2449	25th Sept. 1865	John Wiggins Coburn.
Certain sanitary improvements in coffins - -	2459	26th Sept. 1865	John Hargreaves.
Washing and wringing machines. *(Communicated by Thomas Bircher.)*	2478	27th Sept. 1865	Richard Archibald Brooman.
Pile sewing machines - - - - - *...rubber springs.*	2548	4th Oct. 1865	John Dodge.
Apparatus for administering injections and douches to the human body.	2555	5th Oct. 1865	William Robert Barker.
An improved composition or material to be employed in waterproofing or rendering woven fabrics impervious to moisture.	2568	6th Oct. 1865	Henry Francis Smith.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith.	2605	10th Oct. 1865	François Thierry Hubert.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.— *continued.*			
Double or single action pumps - - - (*caoutchouc spring.*) (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same.	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Apparatus for raising liquids - - - (*india-rubber washers.*)	2632	12th Oct. 1865	Jean Ursin Bastier.
Elastic fronts, sides and backs for boots and shoes -	2640	13th Oct. 1865	Matthew Cartwright.
A certain composition having anti-corrosive and anti-fouling properties, for the preservation of and keeping clean the bottoms of iron vessels, and also for the preservation of iron submerged and iron structures exposed to the action of the atmosphere or water - - - - (*composed partly of gutta-percha.*)	2653	14th Oct. 1865	William Jardine Combe Mac Millan. James Mason. John Vickers Scarborough.
Manufacture of covers applicable to drawing or printing rollers and as endless blankets - -	2716	20th Oct. 1865	Manuel Leopold Jonas Lavater. John Kershaw.
An improved mode of transmitting motion to the styles or hands of the dials of counters used for indicating and registering the distances public vehicles or private carriages travel.	2736	23rd Oct. 1865	Mathieu Julien, sen^{r}.
Improvements in the manufacture of keys for pianofortes and other musical instruments requiring such keys, and in parts connected with such keys - - - - - -	2747	24th Oct. 1865	Daniel George Staight. Stephen Staight. James Cheverton.
Improvements in roller skates, and in the rollers to be used therewith and for other purposes.	2770	27th Oct. 1865	Robert Bell Sanson.
Packing and labelling bottles, jars and other fragile articles.	2775	28th Oct. 1865	George Clark.
Manufacture of cushions for billiard tables - -	2874	7th Nov. 1865	George Alexander Smith.
Improvements in brushes for hair dressing and other uses, also in brooms and apparatus for cleaning, preparing, painting, coating and smoothing surfaces - - - -	2985	20th Nov. 1865	George Smith. Charles Ritchie.
Shields for trunks or packages - - - (*Communicated by Alford House and Henry Alonzo House.*)	3022	24th Nov. 1865	William Edward Newton.
Apparatus for signalling on railways - - (*india-rubber packings for bearings.*)	3032	25th Nov. 1865	Charles Frederick Whitworth.
Improved machinery to be used in the manufacture of paper. (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
An improved nautical safety apparatus - -	3045	28th Nov. 1865	François Mols.
"Top rollers" employed in the manufacture of fibrous substances.	3073	30th Nov. 1865	John Kerfoot.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes.	3093	2nd Dec. 1865	Thomas Aldridge Weston.
An improved ruler - - - - (*Communicated by George Schramm.*)	3193	11th Dec. 1865	James Theodore Griffin.
Construction of door mats, flesh and bath brushes made principally of india-rubber.	3216	13th Dec. 1865	George Barber.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
GUTTA-PERCHA, &c.—*continued.*			
Apparatus for regulating heat obtained by the combustion of gas. (*for vulcanising india-rubber.*)	3268	18th Dec. 1865	Henry Planck.
Manufacture of electric conductors insulated with india-rubber.	3347	27th Dec. 1865	Hugh Adams Silver.
HAIR-DRESSING AND PERFUMERY.			
Improvements in brushes for brushing the hair, which improvements are also applicable to brushes for other purposes.	61	7th Jan. 1865	Theophilus Horrex.
Improvements in the construction of brushes used for brushing the human or other hair, and in the apparatus or means connected therewith.	214	25th Jan. 1865	Casimir Roques.
Hair pins - - - - - - (*Communicated by Joseph Charles Howells.*)	325	6th Feb. 1865	Richard Archibald Brooman.
Machinery or apparatus for brushing the hair -	343	7th Feb. 1865	John Butler Watters.
Improvements in the strengthing and ornamenting of collapsible or soft metal tubes. (*for cosmetics.*)	667	9th March 1865	Edmund Leahy.
Machinery for cutting the human hair, the same being applicable for shearing horses.	973	6th April 1865	Robert Maynard.
The application of a certain kind of goat's hair in imitation of human hair, to the manufacture of head dresses, moustaches, and all kinds of false hair, and the process of preparing the same.	1367	18th May 1865	Henry Rushton.
Driving apparatus for hair brushing and shampooing by machinery - - - - -	1490	31st May 1865	Thomas Appleton Browne. John Knight.
Improved preparations for the treatment and preservation of the hair. (*Communicated by Max Oldendorff and Pierre Lévy.*)	1647	19th June 1865	John Henry Johnson.
An improved arrangement of machinery for brushing hair.	2058	8th Aug. 1865	Samuel Middleton.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*impregnating the air with perfumes.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
Brushes - - - - - - (*for the hair.*)	2236	30th Aug. 1865	George Smith. Charles Ritchie.
Hair brushing machinery or apparatus - -	2278	5th Sept. 1865	Joseph Neat. Francis Ford.
A new or improved method of and apparatus for heating instruments or irons for curling, waving and frizzling hair, and for other purposes to which heated instruments or irons are applicable. (*Communicated by Hippolyte Gillot.*)	2283	6th Sept. 1865	Louis Gachin.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HAIR-DRESSING, &c.—*continued.*			
Machinery for brushing hair	2417	22nd Sept. 1865	Frederick Thomas Brandreth. John Henry Brandreth.
Manufacture of scent and smelling bottles	2599	9th Oct. 1865	Thomas Miles.
A new or improved bottle fountain for pocket and other purposes.	2847	4th Nov. 1865	Jean Nadal.
Improvements in brushes for hair dressing and other uses, also in brooms and apparatus for cleaning, preparing, painting, coating and smoothing surfaces	2965	20th Nov. 1865	George Smith. Charles Ritchie.
Hair brushing apparatus	2994	21st Nov. 1865	George Smith. George Smith, jun^{r}. Charles William Smith.
HAMMERS, AXES, PICKS, SCREW-DRIVERS.			
Improvements in steam hammers and in apparatus employed in combination with steam hammers.	89	11th Jan. 1865	John Ramsbottom.
Hammers and pile-drivers to be worked by steam or other power. (*Communicated by Charles Michel Nillus, Ernest Ferdinand Nillus, Albert Emmanuel Nillus and Jean Joseph Maulius Crouvés.*)	181	20th Jan. 1865	William Edward Newton.
Machinery for rolling and hammering iron and other metals.	375	10th Feb. 1865	John Ramsbottom.
Improvements in steam hammers applicable to the manufacture of files, to welding flyers of cotton machinery and to other purposes.	641	7th March 1865	James Dodge.
Forging machines	882	28th March 1865	Joseph Wright.
Improvements in steam and atmospheric hammers and presses, which improvements are also applicable to steam-engines.	953	4th April 1865	Joseph Vaughan.
Mode of making or forming the links of iron or steel chains and chain cables, and for machinery to be used therein.	1004	8th April 1865	Alfred Homfray.
Machinery for cutting files	1013	8th April 1865	Thomas Turton.
Manufacture of iron and steel	1023	11th April 1865	Charles Vaughan.
Cushions for steam cylinders (*Communicated by Henry Johnson.*)	1079	18th April 1865	Frederick Collier Bakewell.
Machinery for cutting and dressing stones and other hard substances. (*Communicated by Gustavus Cuppers.*)	1093	19th April 1865	Maurice Vogl.
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids. (*construction of picks.*)	1203	29th April 1865	William Leatham.
An improvement in atmospheric forging hammers	1380	19th May 1865	Edward Augustus Raymond.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HAMMERS, &c.—*continued.*			
Construction of screws and screw drivers - - (*Communicated by Jared Augustus Ayres.*)	1387	19th May 1865	Alfred Vincent Newton.
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkington.
Certain improvements in the manufacture of axes, adzes, picks, and other like tools having a hole or eye formed in them for receiving a handle.	1558	7th June 1865	Thomas Smith.
Hammers and other machines actuated by steam or other fluid or vapour - - - - -	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Steam hammers - - - - -	2174	24th Aug. 1865	David Davies.
Chucks for turning lathes - - - - (*and turning handles for picks.*)	2680	17th Oct. 1865	Robert Burley.
Improvements in forging and swaging steel and iron wheel tyres, and in the apparatus or tools employed for that purpose.	2695	19th Oct. 1865	Josiah Penton.
Construction of mining picks - - - (*Communicated by The Incorporated Washoe Tool Company.*)	2796	30th Oct. 1865	William Edward Newton.
Improvements in steam hammers and in means of applying them to the manufacture of boilers and tubes.	2805	31st Oct. 1865	Charles Emmet.
Improvements in the construction and manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles. (*casting hammer blocks.*)	3332	23rd Dec. 1865	Francis William Webb.
HARNESS, SADDLES, BITS, BLINKERS, STIRRUPS AND WHIPS; HARNESSING, RELEASING FROM HARNESS; SHEARING, GROOMING AND SHAMPOOING HORSES.			
Bits for horses and other animals - - -	66	9th Jan. 1865	Lionel Weber.
Manufacture of boots, shoes, saddlery, harness and other articles. (*Communicated by Toussaint Landrin.*)	169	19th Jan. 1865	William Clark.
Improvements in the manufature of saddle trees and in the spring bars of saddle trees - -	239	27th Jan. 1865	John Southall the younger. Henry Southall.
Waterproofing skins, hides and leather - - (*for harness.*)	413	14th Feb. 1865	George Harton.
A chemical combustible substance and apparatus to which it is applicable. (*for horsemen's stirrups.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
Arrangements or apparatus to be applied to vehicles drawn by horses to restrain and prevent them from running away.	589	2nd March 1865	Peter Rothwell.
Improved apparatus for promptly disconnecting horses from carriages and other vehicles.	683	11th March 1865	Pierre Marvaud.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HARNESS, &c.—*continued.*			
A new or improved apparatus for grooming horses -	869	28th March 1865	John Norris, jun^{r}.
An improved application of rotating brushes, and in the mechanism and apparatus connected therewith. (*for grooming horses.*)	920	1st April 1865	John Drinkwater.
Machinery for cutting the human hair, the same being applicable for shearing horses.	973	6th April 1865	Robert Maynard.
An improved application of rotating brushes to the grooming or cleaning of horses and other quadrupeds.	1038	12th April 1865	John Haworth.
Manufacture of flock fabrics - - - (*for saddle cloths.*) (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
Fasteners for driving-bands, straps, belts, harness or other such like purposes - - -	1222	1st May 1865	Joseph Felix Allender. Thomas Frederick Cashin.
An improved safety stirrup for ladies' and gentlemen's riding saddles.	1285	9th May 1865	Samuel Hudson.
An improved dog leash or slip - - -	1476	30th May 1865	Samuel Davis.
Driving apparatus for hair brushing and shampooing by machinery - - - - (*horses and cattle.*)	1490	31st May 1865	Thomas Appleton Browne. John Knight.
An improved bit for subduing or stopping runaway or restive horses.	1617	15th June 1865	Jules François Dubois.
Apparatus for shearing or "clipping" horses or other animals. (*Communicated by François Romain Carron, jun^{r}.*)	2172	23rd Aug. 1865	John Garrett Tongue.
Machinery or apparatus for disengaging runaway horses from carriages and stopping them so as to prevent accidents.	2214	29th Aug. 1865	Robert Thomas Holmes.
Improved apparatus for promptly disconnecting horses from carriages and other vehicles.	2271	4th Sept. 1865	Pierre Marvaud.
An improved stirrup latch bar - - -	2320	11th Sept. 1865	Samuel Davis.
Saddles and harness - - - - (*Communicated by Chevalier Achille Angelini.*)	2366	15th Sept. 1865	William Clark.
Tanning or treating hides applicable for machine bands and other purposes. (*for harness.*)	2591	7th Oct. 1865	William Harris.
Coating iron and steel with gold, silver, platinum or copper. (*carriage harness.*)	2592	7th Oct. 1865	Jacob Baynes Thompson.
Manufacture of bands, belts or straps for harness, for driving machinery or for other purposes.	2619	11th Oct. 1865	James Crutchett.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating saddlery.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improvement in blinkers for horses and other animals.	2658	14th Oct. 1865	Charles Alfred Elliott.
Saddles - - - - - - -	2688	18th Oct. 1865	Thomas Jones. Edward King Mason.
A new or improved double acting safety stirrup bar.	2704	20th Oct. 1865	William Johns.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HARNESS, &c.—*continued.*			
Fasteners for driving bands, straps, belts, harness or other such like purposes - - - -	2802	31st Oct. 1865	Thomas Frederick Cashin. Joseph Felix Allender.
A new or improved swivel snap - - - - (*for harness chains.*)	3096	2nd Dec. 1865	Emile Morin. Roman Schweizer.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for whip stocks.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for traces, bridles and reins, collars, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
HATS, CAPS, BONNETS, LADIES' CAPS, CAP-FRONTS; COVERINGS FOR THE HEAD, HEAD DRESSES, HEAD ORNAMENTS.			
Apparatus for ironing and dressing woollen and other tissues. (*felt hats or bonnets.*) (*Communicated by André Lyon.*)	146	18th Jan. 1865	François Paul Henri Cahuzac.
Improved machinery for shaping hat and bonnet blocks.	258	28th Jan. 1865	William Hiram Higgins.
Sewing-machines - - - - - (*for sewing hat leathers.*) (*Communicated by Edmond Philippe and Dominique Gance.*)	304	3rd Feb. 1865	William Clark.
Dying the herbs and straw used in the manufacture of straw hats and artificial flowers, or other fancy articles.	463	18th Feb. 1865	Emile Carchon.
A chemical combustible substance and apparatus to which it is applicable. (*to apparatus for hatters.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
Apparatus for ventilating hats - - -	498	22nd Feb. 1865	John Carter.
Manufacture of felt hats - - - -	941	3rd April 1865	Charles Vero.
An improved hat ventilator - - -	961	5th April 1865	Robert Stanley.
Manufacture of flock fabrics - - - - (*for hats and caps.*) (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
Improved machinery for fulling fur hats or felt hats (*Communicated by Onezippe Silvie.*)	1314	12th May 1865	Etienne Lucien Girard.
An improved chaplet or head dress - -	1333	13th May 1865	Henry James Burt.
The application of a certain kind of goat's hair in imitation of human hair, to the manufacture of head dresses, moustaches, and all kinds of false hair, and the process of preparing the same.	1367	18th May 1865	Henry Rushton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HATS, &c.—*continued.*			
An improved composition to be employed in the manufacture of bonnets and hats.	1442	25th May 1865	Jeffery Eustace.
Manufacture of hats and other felted goods and fabrics. (*Communicated by Edwin Dodd M'Cracken, James M'Cracken, Charles Edward M'Cracken, John Adams Southmayd and Robert Warner Southmayd.*)	1707	26th June 1865	William Edward Newton.
Certain new and useful improvements in the construction of hats. (*Communicated by Elias Rosenswig.*)	1971	31st July 1865	Thomas Drew Stetson.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for hat cases.*)	2423	22nd Sept. 1865	Matthew Cartwright.
Coverings for the head - - - - (*Communicated by Alfred Apard.*)	3056	29th Nov. 1865	Henri Adrien Bonneville.
Manufacture of navy, yachting and other seaman's hats.	3241	14th Dec. 1865	James Lancaster.
Machinery for the manufacture of felt hats - - (*Communicated by The Eickemeyer Hat Blocking Machine Company.*)	3281	19th Dec. 1865	William Edward Newton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for stiffening rims of hats.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for hat bands, trimmings and flowers.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
HEATING AND EVAPORATING; REGULATING HEAT.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - -	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Means of and apparatus for generating steam and heat.	33	5th Jan. 1865	John Malsbury Kirby.
Construction of vacuum pans - - -	57	7th Jan. 1865	Edward Beanes. Conrad William Finzel.
Construction of railway carriages - - - (*and warming.*)	95	11th Jan. 1865	Rock Chidley.
Producing gases and vapour in a heated state -	127	14th Jan. 1865	James Young.
Manufacture of boots, shoes, saddlery, harness and other articles. (*Communicated by Toussaint Landrin.*)	169	19th Jan. 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Improvements in steam generators or steam-boilers and furnaces, part of which is also applicable to other heat generating apparatus.	243	27th Jan. 1865	Joseph Twibill.
Improvements in effecting the combustion of fuel in the furnaces of steam-boilers and the fire-places of stoves, and of gas in gas-burners, and in apparatus connected therewith.	311	4th Feb. 1865	Frank Clarke Hills.
Improvements in the ventilation of pressing irons heated by gas, and for preventing the condensation of the vapour in the tubes or flues leading therefrom.	350	7th Feb. 1865	Samuel Egan Rosser.
Improvements in apparatus for heating water and in connecting hot water and other metal pipes.	390	11th Feb. 1865	Andrew McLaren.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Improvements in the mode of treating for evaporating and concentrating purposes, cane juice and saccharine and other solutions and liquids, and also in machinery or apparatus for the concentration of cane juice and saccharine and other solutions, and for the evaporation of liquids.	418	14th Feb. 1865	Alfred Fryer.
Improvements in puddling furnaces and in apparatus connected therewith. (*utilizing waste heat.*)	473	18th Feb. 1865	John Gay Newton Alleyne.
A chemical combustible substance and apparatus to which it is applicable. (*for foot warmers, heating carriages, &c.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
Obtaining motive-power from aëriform fluids and from liquids.	501	22nd Feb. 1865	Matthew Piers Watt Boulton.
Method of and apparatus for generating heat -	516	24th Feb. 1865	Joseph Jacob. Rudolph Pilzinger.
An improved method of extracting gases from mineral oils, and in employing the same for illuminating and heat producing purposes, and in the machinery or apparatus connected therewith.	549	27th Feb. 1865	William Sim.
An improved atmospheric pressure lamp for the burning of benzole, paraffin, naphtha or other volatile oils, which lamp may be used for all the purposes for which lamps are usually required, either for lighting, cooking, heating or other purposes. (*Partly communicated by John Joseph Riddle.*)	562	28th Feb. 1865	William Bell Dalston.
Drying apparatus - - - - - (*Communicated by Félix Monmon and Auguste Racinet.*)	603	4th March 1865	Henri Adrien Bonneville.
Apparatus for heating and cooling atmospheric air and other aëriform bodies, and for heating ovens, and for heating and ventilating buildings.	636	7th March 1865	Loftus Perkins.
Stoves for heating air supplied to blast furnaces -	650	8th March 1865	Richard Howson.
Apparatus used for bending the ends of walking sticks, and the sticks or handles of umbrellas and parasols - - - - -	682	10th March 1865	Joshua Jones. Richard Daniel Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Construction of steam generators and evaporators - (*Communicated by Eli Thayer and Sabin Peter Pond.*)	743	16th March 1865	Alfred Vincent Newton.
Heating preparatory to and for the purpose of hardening or tempering of knives, files, tools, and all other descriptions of cutlery or hardware usually subject to the process of hardening or tempering.	747	17th March 1865	Henry Wethered.
Means and apparatus for utilizing the heat of steam.	854	25th March 1865	David Estler Blackie.
Improvements in the manufacture or preparation of materials for and in their application to lighting and heating purposes, also in apparatus used for the same. (*Communicated by Auguste de Peyronny.*)	855	25th March 1865	William Clark.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold.	864	27th March 1865	Ferdinand Le Roy.
Apparatus employed in the concentration of all solutions where quick or speedy concentration or evaporation is required.	872	28th March 1865	William Walsh.
Furnaces or apparatus for heating the blast for furnaces used in smelting iron, and for other furnaces.	891	29th March 1865	John Player.
Kitchen ranges - - - - - -	940	3rd April 1865	Frederick Brown.
Improvements in or applicable to boilers furnished with pipes for the circulation of water for domestic purposes.	974	6th April 1865	John Brown.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
Improvements in the method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	997	7th April 1865	William Jackson.
Heating files and file blanks - - -	1020	10th April 1865	William Brooks.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Certain improvements in gas-ammoniacal engines -	1074	17th April 1865	Louis De St. Céran.
Constructing portable hot rooms or chambers for drying cloths and other articles.	1135	24th April 1865	Welburn Williamson.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*and treating feed water.*) (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
An improved method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	1287	9th May 1865	William Jackson.
Production and application of electricity - - (*for heating metals.*)	1412	23rd May 1865	Henry Wilde.
Improvements in the retorts used in the manufacture of gas and in other distillations, which improvements are adaptable to evaporating vessels.	1424	25th May 1865	John Ambrose Coffey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Foundry cupolas - - - - - - (*heating the blast.*)	1498	31st May 1865	Thomas Summerson.
Improvements in the means of carburetting or treating aëriform fluids for lighting and heating purposes, and in apparatus for the same. (*Communicated by Henri Auguste Georges du Vergier Marquis de la Roche Jaquelein.*)	1507	1st June 1865	William Clark.
An improved economic boiler for hot water apparatus, applicable for the heating of hothouses, churches and other public buildings.	1510	1st June 1865	Frederick Knight.
An improved method of generating heat, and apparatus or means for effecting the same - -	1559	7th June 1865	William Sim. Arthur Barff.
An improved process for penetrating or impregnating woods with various substances. (*Communicated by Jules Louis Hossard.*)	1573	9th June 1865	William Edward Gedge.
Multitubular hot water boilers - - -	1614	14th June 1865	Henry Ormson.
Generating steam - - - -	1622	15th June 1865	Matthew Piers Watt Boulton.
An improved method of and apparatus for burning liquid hydrocarbons, and the employment thereof for heating purposes. (*Communicated by Alexandre Schpakofsky and Nicolas Stange.*)	1711	27th June 1865	Richard Archibald Brooman.
Heating chisels, knives, plane irons, gouges, augers, steels, shears, scythes and saws.	1715	27th June 1865	William Brooks.
Improvements in the production of artificial light, and in the apparatus connected therewith.	1809	8th July 1865	Isham Baggs.
An improved self-acting apparatus for obtaining a circulation of volatile liquids. (*Communicated by Messieurs Francisque Massot and Auguste Juquin.*)	1816	8th July 1865	Hector Auguste Dufrené.
Means and apparatus for increasing the mechanical power of steam.	1820	10th July 1865	William Alexander Lyttle.
An improved process for obtaining oxygen - - (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Improvements in the production of gases from aqueous vapour, and in the application thereof to heating purposes.	1841	12th July 1865	Harrison Blair.
Motive-power by capillary attraction - - - (*adapted to heating.*)	1874	19th July 1865	Johann Ernst Friedrich Lüdeke.
Construction and working of furnaces for puddling, balling, heating and melting metals.	1882	19th July 1865	David Caddick.
Manufacture of pots and crucibles wherein metals and other materials may be heated or melted.	1884	19th July 1865	George Nimmo.
Obtaining motive-power when heated air or aëriform fluid is employed. (*heating aëriform liquid.*)	1915	22nd July 1865	Matthew Piers Watt Boulton.
Means or method of applying mineral oils for generating steam and heat. (*Partly communicated by Alexandre Szpis.*)	1928	25th July 1865	Wladislaus Zbyszewski.
Construction of cooking stoves and ranges - -	1944	26th July 1865	William Barton.
An improved process for applying airproof solutions to the interior of casks and barrels. (*heating the interiors.*) (*Communicated by Edward Delavan Woodruff.*)	1957	28th July 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Obtaining motive-power by heat - - - - (*heating aëriform fluids.*)	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Improvements in generating steam and in heating steam and aëriform fluids.	2051	7th Aug. 1865	Matthew Piers Watt Boulton.
Heating and evaporating - - - - - (*Partly communicated by Hypolite Girard.*)	2072	10th Aug. 1865	Thomas Frederick Henley.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*and more safely supplying oil for heating purposes.*) (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Furnaces to be used in the manufacture of glass and iron and steel, and for other like purposes. (*heating the air.*) (*Communicated by Henning Boetius.*)	2105	15th Aug. 1865	John Frederick Boetius.
Method of heating the ovens and boilers of kitchen ranges or cooking stoves.	2176	24th Aug. 1865	Frederick Thomas.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*preserving uniform temperature in ovens, &c.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
Construction of apparatus for distilling and rectifying alcohols. (*wash heaters.*) (*Communicated by François Desiré Savalle.*)	2203	28th Aug. 1865	Henri Adrien Bonneville.
Improved steam heating apparatus - - - (*Communicated by Henry Bulkley.*)	2255	1st Sept. 1865	Alfred Vincent Newton.
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M^cCallum.
A new or improved method of and apparatus for heating instruments or irons for curling, waving and frizzling hair, and for other purposes to which heated instruments or irons are applicable. (*Communicated by Hippolyte Gillot.*)	2283	6th Sept. 1865	Louis Gachin.
Improvements in cooling, heating and evaporating, and in apparatus employed therein.	2361	15th Sept. 1865	Walter Blundell.
Improvements in the machinery or apparatus and in the processes for the treatment and manufacture of sugar.	2385	19th Sept. 1865	John Fletcher.
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron - (*for heating boilers, &c.*)	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Construction of vessels for preserving food and liquids.	2473	27th Sept. 1865	Louis Henri Gillet.
Apparatus for heating, evaporating and cooling liquids - - - - - -	2494	28th Sept. 1865	Isaac Smith. William Fothergill Batho.
Apparatus for lighting and heating, suitable for sick rooms and nurseries, and applicable also as holders for matches, watches, and other necessary articles. (*Communicated by François René Menand and Charles Louis Marie Menand.*)	2515	30th Sept. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Improvements in producing and combining gases to be used for heating purposes, and in the construction of retorts for producing and combining such gases.	2527	2nd Oct. 1865	Silas Covell Salisbury.
Blast furnaces - - - - - -	2528	2nd Oct. 1865	Silas Covell Salisbury.
Apparatus for decomposing and superheating liquids, vapours and gases. (*Communicated by Gustave Renard and Amedée Lipman.*)	2535	3rd Oct. 1865	Richard Archibald Brooman.
Improvements in evaporating and distilling liquids, and in the apparatus employed therein.	2590	7th Oct. 1865	Tomlin Campbell.
Apparatus for mangling and callendering - - (*heating the rollers.*)	2597	9th Oct. 1865	Robert Walmsley.
An improved mode of generating steam - -	2604	10th Oct. 1865	John Sturgeon.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, jun^r. and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Manufacture of gas - - - - - - (*for heating.*)	2620	11th Oct. 1865	James Crutchett.
Heating calender bowls and other cylinders or rollers.	2636	12th Oct. 1865	William Mather.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
Means of securing the handles of table knives and forks and other similar articles.	2671	16th Oct. 1865	Thomas M^{c}Grah.
Caloric or hot air engines - - - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
Improvements in desiccating the leaves and flowers of plants and other vegetable substances, and in the apparatus to be employed therein. (*Communicated by Benjamin Dickinson.*)	2703	20th Oct. 1865	Allan Lawrie M^{c}Gavin.
Furnaces of and means of heating the feed water for steam-boilers.	2712	20th Oct. 1865	John White.
Improvements in the manufacture of inflammable gases and in their application to useful purposes. (*for heating.*)	2719	21st Oct. 1865	Isham Baggs.
Improvements in the method of and apparatus for utilising the liquors used in the treatment of straw or other fibrous materials for the manufacture of paper, which improvements are also applicable to the evaporation of liquids generally. (*Communicated by Eugene Porion.*)	2726	21st Oct. 1865	James Wright.
Improvements in sewing machinery for using waxed thread. (*Communicated by Thomas John Halligan.*)	2748	24th Oct. 1865	Alfred Vincent Newton.
Skates - - - - - - - (*with heater attached.*) (*Communicated by Owen Wilson Taft.*)	2790	30th Oct. 1865	Frederick Tolhausen.
An improved apparatus for increasing draught in and preventing or curing smoky chimneys, and economising heat. (*Communicated by François Perrachon.*)	2822	2nd Nov. 1865	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Manufacture of coloring matter for dyeing and printing. (*heating mixtures.*)	2825	2nd Nov. 1865	Ludwig Schad.
Improvements in generating and applying certain gases, and in apparatus to be employed therein.	2833	2nd Nov. 1865	James Webster.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold.	2853	4th Nov. 1865	James Thys.
Machinery or apparatus employed for sizing yarns -	2883	8th Nov. 1865	James Eastwood.
Furnaces for heating the blast for blast furnaces -	2897	10th Nov. 1865	Thomas Whitwell.
Treating brewers' grains in order to render them more suitable for the food of animals. (*subjecting to heat.*)	2898	10th Nov. 1865	Edward John Davis.
Apparatus for heating the feed water for steam-boilers.	2920	13th Nov. 1865	James Heywood Whitehead.
Improvements in the production or manufacture of gas for heating or illuminating, and in the retorts and apparatus employed in such manufacture.	2965	17th Nov. 1865	James Harbert.
An improved trap or liquid sealing to the covers of cisterns, pans, jars, tubs and other vessels or chambers - - - - - (*for retaining heat.*)	2986	20th Nov. 1865	George Putland Hemming. Henry Coyle.
Apparatus for condensing exhaust steam, and heating air by the heat abstracted in effecting the condensation of such steam. (*Communicated by Addison Calvin Fletcher.*)	2996	21st Nov. 1865	Alfred Vincent Newton.
Means and apparatus for raising heat by the combustion of fuels of various kinds. (*see* "FURNACES.")	3029	25th Nov. 1865	John Francis Bennett.
An improved composition for enamel, paint, varnish, cement or plaster. (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
An improved method of utilizing the waste heat of coke ovens. (*for heating boilers.*) (*Communicated by Antoine Barbier-Perroton.*)	3048	28th Nov. 1865	William Edward Gedge.
A new or improved method of preventing the escape of heat from steam cylinders - -	3051	28th Nov. 1865	William Simons. Andrew Brown.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.
Improvements in the manufacture and treatment of railway bars, tyres and axles, also in the construction of furnaces, machinery and apparatus connected therewith. (*heating the furnaces.*)	3084	1st Dec. 1865	Thomas Weatherburn Dodds.
Apparatus for cooking by steam - - - (*or heating dishes.*) (*Communicated by Francis Milliken.*)	3162	8th Dec. 1865	George Tomlinson Bousfield.
Apparatus for regulating heat obtained by the combustion of gas.	3268	18th Dec. 1865	Henry Planck.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HEATING, &c.—*continued.*			
Boilers or apparatus for generating steam (*for heating.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Foot protectors	3273	19th Dec. 1865	Augustus Henry Thurgar.
Improved apparatus for burning combustible vapor (such as that from naphtha or coal oil) for heating, cooking and lighting purposes. (*Communicated by James Stratton.*)	3317	22nd Dec. 1865	George Davies.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters.	3344	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.
Treating hydrocarbon oils	3345	27th Dec. 1865	James Young, jun^{r}.
Steam-boilers or generators	3369	29th Dec. 1865	Andrew Barclay.
See also "FIRE-PLACES." *See also* "FURNACES."			
HOISTS, CRANES, CAPSTANS, WINDLASSES; RAISING AND LOWERING HEAVY BODIES; RAISING FROM MINES; RAISING SUNKEN SHIPS; MOVING HEAVY BODIES.			
Drilling apparatus for hand or steam power, adaptable also as a vice and for lifting purposes (*screw jack.*)	18	3rd Jan. 1865	George Hodgson. James Pitt.
Mode of working hydraulic lifts	180	20th Jan. 1865	William Clay.
Applying power to the working of ships' windlasses, winches, capstans, pumps and other ships' gear.	242	27th Jan. 1865	Handel Moore.
Apparatus for relieving wire ropes from strain when used in lifting and lowering weights.	262	30th Jan. 1865	John Gibson.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*motive-power for hoisting.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Hydraulic lifting or hoisting apparatus	328	6th Feb. 1865	Alexander Steven.
Improvements in apparatus for discharging coals and other cargo from ships' holds, applicable also to the raising and transferring of weights from one point to another	359	8th Feb. 1865	George Elliot. Henry Coxon.
Apparatus for lifting and tilting casks containing liquids.	446	16th Feb. 1865	Charles Octavius Staunton.
A new or improved instrument or apparatus for raising weights, for moving heavy bodies, and for other like purposes.	526	24th Feb. 1865	James Hundy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Hoists, &c.—*continued.*			
Differential wheel gearing - - - - (*for crabs, hoists, cranes, &c,*)	744	17th March 1865	John Standfield.
Cranes - - - - - -	884	29th March 1865	William Irlam.
A new or improved arrangement of mechanism for propelling waggons in connection with railway hoists.	895	30th March 1865	George Greenish.
An improved safety tackle for raising and lowering heavy weights.	937	3rd April 1865	Pierre Joseph Jamet.
"Pulleys" used by brewers and others for lifting and lowering weights into and out of carts, waggons or trucks.	1091	19th April 1865	Fredric William Gilbert.
Hydraulic pulling jacks - - - -	1176	27th April 1865	Joseph Tangye.
Steam cranes - - - - -	1342	15th May 1865	Charles James Appleby.
Hydraulic cranes - - - - - (*Communicated by Alfred Cavenaile.*)	1421	24th May 1865	Henri Adrien Bonneville.
Manufacture of iron piers or erections, applicable more especially for carrying bridges at high elevations, or available for sheer legs and lighthouses.	1533	5th June 1865	Charles De Bergue.
An improved fire-escape, applicable also to raising loads from mines and other purposes. (*Communicated by Xavier Philippart.*)	1666	21st June 1865	William Edward Gedge.
Improvements in tubular structures rendering them specially applicable for ships' masts and building purposes. (*hoists and hoist shafts.*)	1755	3rd July 1865	Edward Deane.
Lifts for transferring passengers, goods and heavy weights, from the lower to the upper floors of hotels, club houses and other buildings, with greater safety than heretofore.	1822	10th July 1865	David Cowan.
A new and improved mode of elevating ships or boats in the water, to enable them to pass over sand bars, shallows and the like, and for raising sunken vessels and docks.	1838	12th July 1865	Thomas Cato M'Keen.
Applying and utilising water power - (*driving cranes.*)	1967	29th July 1865	Valentine Baker.
Apparatus for sustaining and lowering ships' boats	2041	5th Aug. 1865	Cortland Herbert Simpson.
Machinery or apparatus for raising and lowering heavy bodies - - - -	2276	5th Sept. 1865	John Campbell Evans. William Fairlie.
Pulleys for raising and lowering heavy bodies -	2333	12th Sept. 1865	George Tangye. Joseph Jewsbury.
Safety apparatus for cages and hoists - -	2383	19th Sept. 1865	Jubal Charlton Broadbent.
Hoisting machines - - - - (*Communicated by William Miller.*)	2414	21st Sept. 1865	William Robert Lake.
Travelling cranes - - - - -	2524	2nd Oct. 1865	David Greig. Robert Burton.
A new apparatus for raising weights by means of the feet or hands. (*Communicated by Messieurs Jean Baptiste Vayre and Julien Nicolas Hubert Gauthier.*)	2560	5th Oct. 1865	Hector Auguste Dufrené.
Capstans - - - - -	2576	6th Oct. 1865	William Dakin Grimshaw.
An improved method of working windlasses -	2635	12th Oct. 1865	George Deslandes. Albert Deslandes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HOISTS, &c.—*continued.*			
Construction of skips for raising ballast, corn, coal, minerals and other matters in bulk.	2663	16th Oct. 1865	Charles Henry Murray.
Raising sunken vessels - - - - -	2764	26th Oct. 1865	Thomas Page.
Means of preventing vessels from sinking, which means are also applicable for raising sunken vessels.	2851	4th Nov. 1865	Thomas Page.
Hydraulic steam and other "lifts" for raising passengers or goods.	2900	11th Nov. 1865	James Norris.
Apparatus for raising, lowering, moving or transporting heavy bodies - - -	2931	14th Nov. 1865	Thomas Aldridge Weston. James Tangye. Richard Chapman.
Improvements in the hulls and tackle of navigable vessels, and in the gear for propelling the same by wind and steam or other motive-power engine, and clearing the same from water, and in apparatus connected therewith to enable the said vessels to be converted in floating graving docks, or lifts for raising vessels and other submerged or partially submerged heavy bodies to or above the surface of the water - - -	3031	25th Nov. 1865	John Ferrier.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes.	3093	2nd Dec. 1865	Thomas Aldridge Weston.
Steam cranes and hoists - - - - -	3130	5th Dec. 1865	Andrew Betts Brown.
An improvement in apparatus for elevating hay, grain or similar materials, and discharging the same from the said apparatus.	3198	11th Dec. 1865	Edward Livingston Walker.
Boilers or apparatus for generating steam - - (*for cranes.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required. (*shear legs for hoists.*)	3314	22nd Dec. 1865	Edward Deane.
Machinery for paying out and hauling in or picking up, particularly applicable to paying out and hauling in telegraph cables.	3346	27th Dec. 1865	Samuel Griffith.
HORSE-SHOES, SHOEING HORSES.			
Shoes for horses and other animals - - (*Communicated by Pierre Charlier.*)	639	7th March 1865	William Clark.
Horse-shoes - - - - - (*Communicated by James Fenner Mallett.*)	1025	11th April 1865	William Clark.
Improvements in the manufacture or shaping of iron intended for the shoes of horses and other animals, and in machinery employed therein. (*Communicated by Hector Edouard Bastien.*)	1629	16th June 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HORSE-SHOES, &c.—*continued.*			
Certain improvements in machinery for the manufacture of horse-shoe and other nails. (*Communicated by Messieurs Bernard Courvoisier, Maxime Antoine Ducis and François Bigoy.*)	1693	24th June 1865	Peter Armand Le Comte de Fontaine Moreau.
Shoeing horses - - - - -	1887	19th July 1865	Thomas Henry Ince.
Machinery to be used in the manufacture of horse-shoes, shoe heel and toe-tips, and other similar articles.	2017	3rd Aug. 1865	Luke Anderson.
Improvements in the manufacture of horse-shoes and in machinery used in the said manufacture.	2197	26th Aug. 1865	John Symmons.
Improvements in the manufacture of horse-shoes, and in the machinery used for such manufacture. (*Communicated by Léon Chrysostôme Viel and Pierre Michel Sibut.*)	2433	23rd Sept. 1865	George Davies.
Shoeing horses - - - - - - (*Communicated by Alphonse Auguste Watrin.*)	2496	28th Sept. 1865	William Edward Newton.
Shoeing horses, ponies and mules, by using shoes without nails.	3134	6th Dec. 1865	John Sainty.
HORTICULTURE, CONSERVATORIES, VINERIES, FLOWER STANDS, LAWN MOWING, TRAINING PLANTS.			
Means of and apparatus for generating steam and heat. (*for warming greenhouses.*)	33	5th Jan. 1865	John Malsbury Kirby.
An improved ornamental flower box - -	126	14th Jan. 1865	George Colven.
Ground vineries or glass ridges for the cultivation of grapes or other fruit.	204	24th Jan. 1865	Charles Tennant Wells.
Improvements in fixing frost screen awnings and nettings, for protecting wall fruit trees, in fixing trellis for training fruit and other trees to walls, and in bricks therefor.	287	1st Feb. 1865	Charles Anthony Wheeler.
Apparatus for ventilating horticultural and other buildings.	332	6th Feb. 1865	Charles Beard.
Improvements in apparatus for heating water and in connecting hot water and other metal pipes. (*for warming conservatories.*)	390	11th Feb. 1865	Andrew M'Laren.
An improved machine for clearing, sweeping and removing the refuse from highways, streets and roads or ways, applicable also for removing the leaves of cut grass and other refuse from lawns and other grass lands and walks.	444	16th Feb. 1865	Henry John Pickard.
Lawn-mowing machines - - - - -	458	17th Feb. 1865	James Bryce Brown.
Boilers for heating water and delivering it at an equal temperature to any number of flow pipes, and also for the generation of steam. (*heating horticultural buildings.*)	493	22nd Feb. 1865	Jasper Hulley.
Construction of walls, houses and other buildings - (*garden walls.*)	822	23rd March 1865	Joseph Tall.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
HORTICULTURE, &c.—*continued.*			
An improvement or improvements in ornamenting articles made of glass. (*flower stands.*)	868	28th March 1865	Joseph Williams.
Improved contrivances to facilitate the arrangement of flowers and leaves.	1187	28th April 1865	Thomas Charles March.
An improved economic boiler for hot water apparatus, applicable for the heating of hothouses, churches and other public buildings.	1510	1st June 1865	Frederick Knight.
Multitubular hot water boilers - - - (*for conservatories.*)	1614	14th June 1865	Henry Ormson.
Ornamental fences and baskets to contain flowers and other articles.	1806	7th July 1865	William Goulding.
Utilizing the stalks, smalls and waste of tobacco for certain purposes - - - - (*fumigating greenhouses.*)	1844	13th July 1865	George Clayton Collyer. Charles Lewis Roberts.
Ornamental tables and table stands, such as cruet frames, liqueur frames, flower, egg and other stands - - - - - - -	1925	25th July 1865	Louis Petre. Edward Samuel Tucker.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*preserving uniform temperature in hothouses.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
Brushes - - - - - - - (*for sweeping gardens.*)	2236	30th Aug. 1865	George Smith. Charles Ritchie.
Improved steam heating apparatus - - - (*Communicated by Henry Bulkley.*)	2255	1st Sept. 1865	Alfred Vincent Newton.
Improvements in apparatus and means for extinguishing fires, part of such improvements being applicable for other purposes. (*for watering gardens.*)	2559	5th Oct. 1865	William Henry Phillips.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating graftings of fruit trees, &c.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Greenhouses - - - - - -	2684	18th Oct. 1865	Thomas Hungate Preston Dennis.
Improvements in brushes for hair dressing and other uses, also in brooms and apparatus for cleaning, preparing, painting, coating and smoothing surfaces - - - - (*for gardens.*)	2965	20th Nov. 1865	George Smith. Charles Ritchie.
Apparatus for regulating heat obtained by the combustion of gas. (*for greenhouses.*)	3268	18th Dec. 1865	Henry Planck.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for tackle for garden rollers, lines for greenhouses, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
INKS AND INKSTANDS.			
A new typographic ink	330	6th Feb. 1865	Anatole Auguste Hulot.
Manufacture of ink (*Communicated by Josiah Vincent Lavers.*)	336	24th March 1865	William Edward Newton.
Inkstands (*Communicated by Frank Oliver.*)	1089	19th April 1865	John Merritt.
Inkstands (*and pen racks.*) (*Communicated by Phineas Lawrence.*)	1484	30th May 1865	Benjamin Lawrence.
Improvements in copying letters, plans and other manuscripts, and in the apparatus and substances employed therein. (*Communicated by Edward Casper.*)	1846	14th July 1865	Henri Adrien Bonneville.
Improvements in the manufacture of compounds of silica and in the production of silicated alkaline inks, colours and dyes.	2267	2nd Sept. 1865	Henry Ellis.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*substitute for oil in printers' ink.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
INLAYING; INLAID-WORK.			
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces (*and for inlaying.*)	1117	21st April 1865	William Scarratt. William Dean.
Staining and graining woods (*in imitation of inlaid-work.*)	1851	14th July 1865	John Morrough Murphy. James Morrough Murphy.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*for inlaid flooring, mosaics, parquet tiles, &c.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
JEWELLERY, LOCKETS, BROOCHES, BRACELETS, WATCH CHAINS, SWIVELS AND KEYS.			
Certain improvements in brooch or other like fastenings.	60	7th Jan. 1865	Joseph Josiah Blackham.
Clasps and snaps or other similar fastenings	185	21st Jan. 1865	Alice Isabel Lucan Gordon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JEWELLERY, &c.—*continued.*			
Certain improvements in the manufacture of pencil cases. (*combined with watch keys.*)	298	3rd Feb. 1865	William Vale.
Certain improvements in the manufacture of brooches, part of which said improvements are applicable to the manufacture of lockets	385	11th Feb. 1865	George Carter Haseler. John Bush Haseler.
Manufacture of jewelry cases and other similar cases.	803	22nd March 1865	John James Carter.
Manufacture of ornamental metallic chains	843	25th March 1865	Edwin Wolverson.
Fastenings for pins, buttons and other articles with metallic backs.	881	28th March 1865	Isac Louis Pulvermacher.
Fastenings for sleeve-links, solitaires and other like purposes.	947	4th April 1865	Henry Jenkins.
A new manufacture of or improvement in ornaments for personal wear.	1779	5th July 1865	Harry Emanuel.
Manufacture of chains, bracelets, necklaces and other articles of jewelry.	1794	7th July 1865	Pierre Mathurin Charles Béziel.
Regulating or controlling the power employed in actuating sewing and other machines of a light nature. (*jewellers' polishing machines.*)	1835	11th July 1865	Benjamin Fothergill.
An improved shank for buttons, studs and solitaires.	1930	25th July 1865	Henry Wright.
Fastenings for sleeve-links, solitaires, brooches and other articles of jewellery	2103	15th Aug. 1865	Reuben Cornelius Lilly. James Sunderland.
Manufacture of swivels	2334	12th Sept. 1865	Joseph Welch.
Manufacture of chains, bracelets, necklaces and other analogous articles.	2497	28th Sept. 1865	Carlo Guiliano.
Manufacture of scent and smelling bottles (*containing lockets.*)	2599	9th Oct. 1865	Thomas Miles.
Certain improved methods of manufacturing or arranging the spring bolts and attendant parts of sleeve-links, and other like articles where the means of a portable connection are required	2665	16th Oct. 1865	John Reading. Samuel Alfred Reading. George Edward Reading. Frederick Francis Reading.
Manufacture of gold and other ornamental chains	3076	30th Nov. 1865	John Hollands. Edward Richard Hollands. Thomas Hollands.
A new or improved swivel snap (*see* "CHAINS.")	3096	2nd Dec. 1865	Emile Morin. Roman Schweizer.
Improved mechanism for winding keyless watches	3230	14th Dec. 1865	August Guye.
An improved kind of clasp or dress preserver, to prevent ladies' dresses from trailing along the ground. (*application of brooches.*) (*Communicated by Marie Louise Changeur.*)	3298	20th Dec. 1865	Henry Edward Newton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for jewellery.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, JOINTING, COUPLING; PIPE JOINTS, RAILWAY JOINTS, FURNITURE JOINTS AND HINGES; PACKING FOR JOINTS.			
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	58	7th Jan. 1865	James Atkins.
Certain improvements in brooch or other like fastenings.	60	7th Jan. 1865	Joseph Josiah Blackham.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Improvements in shaping and forging metals and in the machinery and apparatus employed therein - - - - - - ("*couplings*" *for gas fittings.*)	165	19th Jan. 1865	James Alfred Shipton. Robert Mitchell.
Manufacture of boots, shoes, saddlery, harness and other articles. (*Communicated by Toussaint Landrin.*)	169	19th Jan. 1865	William Clark.
Packing for steam joints, stuffing boxes, pistons and the like.	217	26th Jan. 1865	William Paton.
Improvements in steam generators or steam-boilers and furnaces, part of which is also applicable to other heat generating apparatus. (*jointing ends of tubes.*)	243	27th Jan. 1865	Joseph Twibill.
An improved socket for pipes and method of joining the same.	285	1st Feb. 1865	George Henry Pierce.
Improvements in apparatus for heating water and in connecting hot water and other metal pipes.	390	11th Feb. 1865	Andrew McLaren.
Improvements in breech-loading fire-arms and in cartridges for breech-loading fire-arms.	421	14th Feb. 1865	Johann Von der Poppenbug.
Mode of making or forming the links of iron or steel chains, chain cables, shackles, couplings or parts of the same, and for machinery to be used therein.	422	14th Feb. 1865	George Homfray.
Sewing-machines - - - - - - (*Communicated by Elias Howe, jun'.*)	430	15th Feb. 1865	Alfred Vincent Newton.
Construction of cabinet sofa and chair bedsteads -	476	20th Feb. 1865	Andrew Sharp.
Certain improvements in hydraulic pumps in connection with engines of motive-power.	521	24th Feb. 1865	William Oram.
Improved portable frames and joints for tables and other articles, applicable also for building purposes and the like.	542	27th Feb. 1865	Charles Whiting.
Making the joints of steam generators and parts connected therewith.	582	2nd March 1865	John Muir Hetherington.
Apparatus for coupling and uncoupling railway waggons or carriages - - - - -	609	4th March 1865	Daniel Morris. Joseph Morris. James Morris.
Construction of bridges - - - - -	633	7th March 1865	Edward William Young.
Improvements in the construction of joints for boxes, drawers and other like articles, and for planks and timbers, and in machinery to be used in the preparation of such joints.	640	7th March 1865	Henry William Wimshurst.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Rolls for connecting sheets of zinc and other metals employed for covering roofs and other enclosures.	662	9th March 1865	Rowland George Fisher.
An improved method of connecting together tubes or pipes used for conveying gas and water, and for other purposes.	669	9th March 1865	Victor Delperdange.
An improved combined tee-piece and valve - -	684	11th March 1865	Charles Johnson.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	699	13th March 1865	James Atkins.
An improved application of steam power to locomotion on ordinary roads. (*Communicated by Alfred Taillendeau.*)	1002	8th April 1865	William Edward Gedge.
Couplings for railway carriages, waggons, trucks and other vehicles.	1035	11th April 1865	Josiah Dadley.
An improved chain or iron-cable shackle - -	1036	11th April 1865	Robert Turner.
Improvements in fire-arms, and in cartridges to be used therewith and with other fire-arms.	1046	12th April 1865	Thomas Jefferson Mayall.
An improved guide applicable to sewing-machines -	1047	12th April 1865	Frederic Bapty. Edward Brydges Sayers.
Pipes for conveying water and gas and for other like purposes, and a new or improved composition for joining the said pipes and other similar pipes.	1058	13th April 1865	Charles Forster Cotterill.
A new or improved table or support for invalids -	1069	15th April 1865	Thomas Edward Harding.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
Improvements in motive-power machinery for cultivating land, part of which improvements is applicable to driving machinery generally -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Improved contrivances to facilitate the arrangement of flowers and leaves. (*cementing tubes for the reception of flowers.*)	1187	28th April 1865	Thomas Charles March.
Improvements in apparatus for raising water and other fluids, and in raising and lowering such apparatus.	1191	28th April 1865	Julian Bernard.
Improvements in iron fortifications, such improvements being applicable to the construction and protection of ships and floating batteries. (*joining armour plates.*)	1209	1st May 1865	George Johnson.
Shackles or links for connecting chain cables and other chains.	1250	4th May 1865	William Roberts.
Certain improvements in the manufacture of "moulds" for metallic castings having a cylindrical form. ("*elbows.*")	1295	10th May 1865	David Hartley.
Improvements in the manufacture of hose and other flexible tubing, which improvements are also applicable in uniting surfaces of india-rubber, gutta-percha or of compounds thereof, to each other, or to woven or other fabric or material for other purposes.	1309	11th May 1865	Thomas Jefferson Mayall.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Machinery for the manufacture of hinges - - (*Communicated by Jean Baptiste Evrard and Jean Pierre Boyer.*)	1335	13th May 1865	William Clark.
Printing machines - - - - - -	1344	15th May 1865	Robert Harrild. Horton Harrild.
Reaping and mowing machines - - -	1371	18th May 1865	William Manwaring.
An improvement in atmospheric forging hammers -	1380	19th May 1865	Edward Augustus Raymond.
Knitting machines - - - - - - (*Communicated by Isaac Wixom Lamb.*)	1445	26th May 1865	William Clark.
Improved means of conducting electric currents through railway trains, and of actuating signals or alarums therein. (*forming mercurial joints.*)	1609	14th June 1865	Andrew Edmund Brae.
Lamp burners and parts connected therewith - (*Communicated by Rufus Spaulding Merrill and William Lincoln.*)	1631	16th June 1865	John Henry Johnson.
Improvements in lamps for railway and other carriages, and in connecting lamps to carriages, a part of which improvements may also be applied to handles for carriages - - - - -	1637	17th June 1865	Walter Howes. William Burley.
Forming the permanent ways of railways - -	1705	26th June 1865	John Whittle.
Improvements in steam-boilers, furnaces and engines, and in parts connected therewith.	1745	30th June 1865	Edwin Elliott.
Mode of connecting rails for railways and tramways	1878	19th July 1865	Constantine Henderson.
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings.	1885	19th July 1865	George Nimmo.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
A self-acting coupling for railway carriages and wagons - - - - - - -	2037	5th Aug. 1865	Thomas Smith. John Brook.
Couplings or fastenings of railway carriages or trucks.	2082	11th Aug. 1865	Richard Douglas Morgan.
Improved safety couplings for railway carriages -	2159	22nd Aug. 1865	Frederick Charles Bryan Robinson.
Permanent way of railways - - - - (*Communicated by Jules Vautherin.*)	2256	1st Sept. 1865	William Clark.
A new shackle or coupling for connecting railway carriages, wagons and other vehicles used on railroads, whereby going between the carriages, wagons or other vehicles, to couple or uncouple, is rendered totally unnecessary - - -	2268	4th Sept. 1865	Samuel Richards Freeman. Abraham Grundy.
Construction of iron safes, strong boxes and other receptacles.	2294	7th Sept. 1865	John Matthias Hart.
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages. (*friction coupling.*)	2379	18th Sept. 1865	Russel Aitken.
Railway carriages and other vehicles - - (*Communicated by Henry Hudson Trenor.*)	2394	20th Sept. 1865	John Henry Johnson.
Machinery for making casks, barrels and other wooden vessels of capacity. (*jointing staves.*)	2426	22nd Sept. 1865	James Davidson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
JOINING, &c.—*continued.*			
Construction of presses for hay, cotton, hemp and other substances. (*Communicated by Thomas Gannon and Thomas Bolton Webster.*)	2454	25th Sept. 1865	Alfred Vincent Newton.
Manufacture of submarine lamps - - -	2458	26th Sept. 1865	John Sampson Starnes.
Certain sanitary improvements in coffins - -	2459	26th Sept. 1865	John Hargreaves.
Improvements in coke and charcoal ovens and in the manufacture of coke, parts of which are applicable to bread, biscuit and pastry ovens. (*liquid joint.*)	2477	27th Sept. 1865	William Morgans.
Improvements in connections for and in stopping pipes used for conveying water and gas, and for other like purposes, and in preventing leakages in the said pipes, and in apparatus employed therein.	2503	29th Sept. 1865	Charles Forster Cotterill.
An improved reclining chair - - - - (*Communicated by William Henry Van Nortwick.*)	2504	29th Sept. 1865	George Davies.
Means employed for fixing sheet metal for roofing and other purposes.	2522	2nd Oct. 1865	James William Tyler.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles.	2613	10th Oct. 1865	Arthur Nicholls.
Double or single action pumps - - - - (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*making steam-joints.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Clod crushers and chain harrows - - - - (*coupling.*)	2634	12th Oct. 1865	William Colborne Cambridge.
Certain improved methods of manufacturing or arranging the spring bolts and attendant parts of sleeve-links, and other like articles where the means of a portable connection are required -	2665	16th Oct. 1865	John Reading. Samuel Alfred Reading. George Edward Reading. Frederick Francis Reading.
Folding chairs - - - - - - (*Communicated by Auguste Emanuel Eliaers.*)	2678	17th Oct. 1865	George Davies.
Improvements in common road carriages and in breaks for the same.	2687	18th Oct. 1865	James Rock the younger.
Wheels for carriages and other vehicles - -	2708	20th Oct. 1865	Samuel Richard Rowe.
An improved mode of uniting pieces of leather, more especially adapted to the manufacture of boots and shoes. (*Communicated by John Chipman Hoadley.*)	2750	25th Oct. 1865	George Haseltine.
A combined adjustable spanner, tube cutter and pipe wrench. (*wrench to screw and unscrew couplings.*) (*Communicated by Henry Hitchings Baragwanath and Martin Van Wisker.*)	3036	27th Nov. 1865	John Phillips Baragwanath.
Coverings for the head - - - - - (*hinged brim.*) (*Communicated by Alfred Apard.*)	3056	29th Nov. 1865	Henri Adrien Bonneville.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee
JOINING, &c.— *continued.*			
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops. (*coupling shafts and gas pipes.*)	3068	29th Nov. 1865	Richard Howarth.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes. (*adapting the coupling to shafts.*)	3093	2nd Dec. 1865	Thomas Aldridge Weston.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*uniting stone, &c.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Certain improvements in the manufacture of railway chairs and in the manner of securing rails thereto.	3131	6th Dec. 1865	Joseph Taylor.
Boilers or apparatus for generating steam - - (*pipe joints.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Certain improvements in the method of attaching and securing together the ends of strapping employed in machinery.	3302	21st Dec. 1865	William Barnsley.
Improvements in the manufacture of axles for carriages and spindles for various purposes, and in machinery to be employed in the said manufacture, part of which improvements in machinery may also be applied to other purposes - (*coupling for machinery.*)	3336	26th Dec. 1865	Elias Lones. Joseph Constant Lones. John Lones. John Brettell. Thomas Brettell. Charles Vernon.
Breaks or apparatus for stopping or retarding railway trains. (*coupling.*)	3386	30th Dec. 1865	David William Thomas.
KNIVES, FORKS, SPOONS, SCISSORS, SHEARS; CLEANING KNIVES, FORKS AND SPOONS; NUT AND LOBSTER CRACKERS.			
Apparatus for cleansing and polishing knives -	26	4th Jan. 1865	George Kent.
Manufacture of sheep shears - - - -	294	2nd Feb. 1865	James Ball.
A new or improved machine for trimming or cutting the edges of books, magazines and such like articles - - - - - - -	324	6th Feb. 1865	William Henry Latham. Frederic Cartwright Ward Latham.
Manufacture of scissors, shears and edge tools - (*Partly communicated by Charles Lingard, jun^{r}.*)	373	10th Feb. 1865	Charles Lingard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
KNIVES, &c.—*continued.*			
Case hardening or converting partially into steel, articles of wrought or malleable iron. (*edges of cutlery.*) (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
An improved apparatus for shearing and burling all sorts of woven fabrics. (*toothed blades.*) (*Communicated by Calixte Hippolyte Jean Pierre Damaye and Jean Compagnie.*)	517	24th Feb. 1865	William Edward Gedge.
Making solid iron scales with bolsters, for all kinds of spring knives.	560	28th Feb. 1865	Arthur Davy.
Manufacture of sheep shears - - -	612	4th March 1865	William Clulow.
Machinery or apparatus for rolling, shaping or forging metals. (*knife blades, &c.*)	701	13th March 1865	Robert Marsden.
Heating preparatory to and for the purpose of hardening or tempering of knives, files, tools, and all other descriptions of cutlery or hardware usually subject to the process of hardening or tempering.	747	17th March 1865	Henry Wethered.
An improved method of treating, cleaning or preparing painted or other canvas, tarpaulins and dirty cotton waste, so as to render the same suitable to be used for household and other purposes for which they may be applicable. (*for knife cloths, &c.*)	752	17th March 1865	William Maurice Williams.
Manufacture of letter clips, bookmarkers, paper knives, and clips for suspending stationery, drapery and pictures, and for other such like purposes - - - - -	933	3rd April 1865	Thomas Corbett. Robert Harrington.
Means or apparatus for effecting the cleansing and polishing of forks.	950	4th April 1865	Charles Martin.
Machinery for cutting the human hair, the same being applicable for shearing horses.	973	6th April 1865	Robert Maynard.
Improvements in the manufacture of the handles of nut crackers, lobster crackers and grape scissors, which said improvements are also applicable to the manufacture of the handles of knives, spoons and other articles.	993	7th April 1865	Thomas White.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding-engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Knive cleaning machines - - - -	1213	1st May 1865	John Charles Davis.
Machinery or apparatus for cutting cylindrical or conical articles.	1247	4th May 1865	George Redrup.
Heating chisels, knives, plane irons, gouges, augers, steels, shears, scythes and saws.	1715	27th June 1865	William Brooks.
Apparatus for cutting scales for knives, and forming metal webs for knives.	1968	1st Aug. 1865	William Singleton.
Sheet metal handles for spoons, saucepans, and other utensils for culinary purposes. (*for ladles, ladles, &c.*)	2228	30th Aug. 1865	James Fallows.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
KNIVES, &c.—*continued.*			
Improvements in the manufacture of spoons, forks and other similar articles, and in apparatus or machinery to be employed therein.	2397	20th Sept. 1865	Daniel Joseph Fleetwood.
Coating iron and steel with gold, silver, platinum or copper. (*knife and fork blades.*)	2592	7th Oct. 1865	Jacob Baynes Thompson.
Means of securing the handles of table knives and forks and other similar articles.	2671	16th Oct. 1865	Thomas McGrah.
A spoon rest - - - - - -	3080	1st Dec. 1865	Joseph Roberts.
Machinery or apparatus for cutting bread - -	3251	15th Dec. 1865	Henry Charles Litchfield.
Shears and scissors - - - - -	3254	16th Dec. 1865	Rolla Badger.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for paper knives, handles, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
LAMPS, LANTERNS, CHANDELIERS, CANDLESTICKS; LAMP FURNITURE, GLASSES AND SHADES; LIGHTING; PRODUCING LIGHT.			
Lamps for burning the vapour of volatile fluids -	41	6th Jan. 1865	John Clowes Bayley. Daniel Campbell.
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Improvements in producing and finishing photographs and photographic transparencies on paper and other suitable substances, and in the machinery employed therein - - - - - (*for lamp shades.*)	56	7th Jan. 1865	Barrowclough Wright Bentley. William Henry Bailey.
An improved method of lighting street and other lamps, and in the apparatus or means connected therewith.	65	9th Jan. 1865	John Welsh.
Street and other lamps and lanterns - -	151	18th Jan. 1865	John William Gregg.
Petroleum and coal oil burners and glasses - -	201	23rd Jan. 1865	Michael Alexander Dietz.
Lanterns for burning hydrocarbon fluids - -	256	28th Jan. 1865	Alexander Septimus Macrae.
An improvement in shades or globes for lamps and other lights. (*Communicated by Henri Beziat.*)	266	30th Jan. 1865	Richard Archibald Brooman.
Candlesticks and candle holders - - -	339	7th Feb. 1865	Alice Isabel Lucan Gordon.
An improved reflecting apparatus for street and other lamps.	342	7th Feb. 1865	Romain De Bray.
Improvements in the miner's safety lamp - -	353	8th Feb. 1865	Richard Clarke Thorp. Philip Young.
A new or improved signal applicable to railways, ships, telegraphs and other such like purposes.	357	8th Feb. 1865	Alfred Warn Banks.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, &c.—*continued.*			
Improved apparatus for supplying with a constant and regular pressure air to burners for consuming or burning hydrocarbons for illuminating purposes.	408	13th Feb. 1865	Edward John Cowling Welch.
An improved atmospheric pressure lamp for the burning of benzole, paraffin, naphtha or other volatile oils, which lamp may be used for all the purposes for which lamps are usually required, either for lighting, cooking, heating or other purposes. (*Partly communicated by John Joseph Riddle.*)	562	28th Feb. 1865	William Bell Dalston.
An improved instrument for concentrating light, applicable to dental, surgical and other operations.	591	2nd March 1865	Charles Rahn.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles. (*weights for chandeliers.*)	699	13th March 1865	James Atkins.
Apparatus for holding and regulating the position of lamp shades or reflectors. (*Communicated by Guillaume Pascal.*)	704	13th March 1865	William Clark.
Construction of bracket, pillar and suspended lamps and lanterns. (*Communicated by James Ives.*)	753	17th March 1865	Alfred Vincent Newton.
Apparatus for obtaining light - - -	841	24th March 1865	Giacomo Felice Marchisio.
Improvements in the manufacture or preparation of materials for and in their application to lighting and heating purposes, also in apparatus used for the same. (*Communicated by Auguste de Peyronny.*)	855	25th March 1865	William Clark.
Manufacture of reflectors for lamps and of surfaces for reflecting light generally.	897	30th March 1865	Benjamin Baugh.
Means and apparatus employed for illuminating lighthouses.	945	4th April 1865	John Richardson Wigham.
Means of and apparatus for increasing the illuminating power of hydrocarbons, oils and gases. (*Communicated by Thomas Say Speakman.*)	980	6th April 1865	George Davies.
Improvements in apparatus for lighting and ventilating ships, part of which is also applicable for producing fresh water at sea.	995	7th April 1865	Henry Edmonds.
Lamps for burning petroleum, naphtha, or other mineral oils - - - - - -	1040	12th April 1865	Charles Boschan. Josef Bindtner. William Caffou.
Means of communicating and signalling between the passengers, guards and drivers of railway trains.	1078	17th April 1865	George William Garrood.
An improved lamp or signal for calling cabs or other vehicles, by day and night.	1113	21st April 1865	Edward Wilson.
Oiling cans - - - - - -	1119	21st April 1865	George Whillock.
Improved apparatus for administering nourishment to the sick or infirm. (*night lamp for heating drinks.*) (*Communicated by Bernard Maillet.*)	1140	24th April 1865	William Edward Gedge.
Philosophical examination into the alleged spirit manifestations, consisting of a lamp and a close room. (see "DRAMATIC EFFECTS.")	1148	24th April 1865	Owen Grenliffe Warren.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, &c.—*continued.*			
Improved apparatus for pouring and decanting liquids. (*supplying lamps.*)	1149	25th April 1865	Nicholas Sibly.
A new illuminating apparatus for burning petroleum (*Communicated by Messieurs Jules Bontems and Louis Pebeyre.*)	1237	3rd May 1865	Peter Armand Le Comte de Fontaine Moreau.
Reflecting lamps - - - - - -	1268	8th May 1865	William Charles Cropp.
Certain improvements in apparatus for illuminating (*Communicated by Monsieur Louis Joseph Asselin de Monnerville.*)	1269	8th May 1865	Peter Armand Le Comte de Fontaine Moreau.
Safety lamps - - - - - - (*Communicated by Ferdinand Sack.*)	1274	8th May 1865	John Henry Johnson.
Gas-burners and chimneys - - - - (*Communicated by William Resor.*)	1334	13th May 1865	William Clark.
Sliding gas pendents or chandeliers - -	1381	19th May 1865	George Henry Brookes.
Certain improvements in lamps for burning mineral oils. (*Communicated by Monsieur Louis Theodore Letourneau.*)	1410	22nd May 1865	Peter Armand Le Comte de Fontaine Moreau.
Lamps - - - - - - - (*Communicated by Adolf Forselles.*)	1422	24th May 1865	Carl Theodor Möller.
Apparatus for increasing the safety of railway passengers and trains, signalling, lighting, and forming a communication between all parts of such trains, also for securing the carriage doors.	1492	31st May 1865	Richard Howarth.
Improvements in the means of carburetting or treating aëriform fluids for lighting and heating purposes, and in apparatus for the same. (*Communicated by Henri Auguste Georges du Vergier Marquis de la Roche Jaquelein.*)	1507	1st June 1865	William Clark.
An improved pocket lantern - - - - (*Communicated by John Augustus Minor.*)	1513	1st June 1865	William Edward Newton.
Improvements in lamps for railway and other carriages, and in connecting lamps to carriages, a part of which improvements may also be applied to handles for carriages - - - - -	1637	17th June 1865	Walter Hoves. William Burley.
Producing a light applicable to photographic purposes, to lighthouses, and to other illuminations.	1653	20th June 1865	Prospero Carlevaris.
Preparation of magnesium for illuminating purposes. (*Communicated by François Pierre Le Roux.*)	1695	24th June 1865	Joseph Solomon.
A new or improved apparatus for producing the magnesium light.	1696	24th June 1865	Charles Ross Bamber.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for generating light.*)	1780	6th July 1865	Hermann Beigel.
Improvements in the production of artificial light and in the apparatus connected therewith.	1809	8th July 1865	Isham Baggs.
An improved process for obtaining oxygen - - (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Lamps - - - - - - -	1862	15th July 1865	Anson Henry Platt.
Motive-power by capillary attraction - - (*adapted to lighting.*)	1874	19th July 1865	Johann Ernst Friedrich Lüdeke.
Signals for railways - - - -	2009	3rd Aug. 1865	Edward Samuel Horridge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, &c.—*continued.*			
Improvements in securing roof lamp glasses of railway and other carriages, which improvements are also applicable to lighting the decks of ships, and other situations.	2026	4th Aug. 1865	Thomas Stanley Raney.
Lamps for burning paraffin oil and other volatile oils.	2042	7th Aug. 1865	Abraham Follet Osler.
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*and more safely supplying oil for lighting.*) (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
Floating lights, beacons, floating batteries and other vessels.	2173	24th Aug. 1865	John Moody.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes.	2184	25th Aug. 1865	Edwin Augustus Curley.
Improvements in the manufacture of night lights and in apparatus employed therein - - -	2367	15th Sept. 1865	Frederick Meyer. Joseph William Freestone.
Save-alls - - - - - - - (*Communicated by Jacques Jean Frinault.*)	2369	16th Sept. 1865	Henri Adrien Bonneville.
Safety lamps for use in mines and other localities - (*Communicated by André Jean Olanier.*)	2370	16th Sept. 1865	Henri Adrien Bonneville.
An improved apparatus for and method of ascertaining the state of sewers, tunnels, drifts or other subterranean works, without descending thereinto, by means of the natural, artificial or magnesium light, part of which apparatus is applicable to levelling purposes.	2446	25th Sept. 1865	Richard William Barnes.
An improved arrangement of apparatus and materials to be employed for effecting the deodorizing of the noxious gases arising from sewers and drains, and for the more effectual ventilation and inspection of such sewers and drains.	2451	25th Sept. 1865	Edward Brooke the younger.
Manufacture of submarine lamps - - -	2458	26th Sept. 1865	John Sampson Starnes.
Improvements in lamps for burning schist, petroleum and other similar oils, and in the means to be employed in lighting the same.	2487	28th Sept. 1865	Jean Maublanc.
Candlesticks - - - - - -	2513	30th Sept. 1865	Arthur Hill.
Apparatus for lighting and heating, suitable for sick rooms and nurseries, and applicable also as holders for matches, watches, and other necessary articles. (*Communicated by François René Menand and Charles Louis Marie Menand.*)	2515	30th Sept. 1865	John Henry Johnson.
Improvements in lamps for burning paraffine, and in feeding apparatus for supplying the same.	2545	4th Oct. 1865	Levi Hewitt.
Manufacture of railway station and other gas lamps	2615	10th Oct. 1865	John Joseph Parkes.
Paraffine lamps - - - - - -	2616	10th Oct. 1865	Daniel Gallafent.
Manufacture of gas - - - - - - (*for lighting.*)	2620	11th Oct. 1865	James Crutchett.
Improvements in the manufacture of inflammable gases and in their application to useful purposes. (*for lighting.*)	2719	21st Oct. 1865	Isham Baggs.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LAMPS, &c.—*continued.*			
Hydrocarbon lamps - - - - (*Communicated by Dr. Moritz Herzog and David Leopold Cohn.*)	2742	24th Oct. 1865	William Snell.
Improvements in lamps for the combustion of magnesium and in preparing magnesium for burning.	2786	28th Oct. 1865	Henry Larkin.
Lamps for burning paraffin oil and other volatile liquid hydrocarbons - - - - -	2787	28th Oct. 1865	James Hinks. Joseph Hinks.
Lanterns for burning coal oil, petroleum and other hydrocarbon fluids. (*Communicated by William Westlake.*)	2809	1st Nov. 1865	Edwin Addison Phillips.
An improved apparatus for burning petroleum and other volatile oils.	2829	2nd Nov. 1865	Louis Pebeyre.
Apparatus for obtaining artificial light from volatile liquids or fluids - - - - - -	2998	22nd Nov. 1865	William Wells. Samuel Marland.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.
Lamps for burning petroleum, paraffin and other hydrocarbon liquids, without a glass chimney, in the roofs of railway carriages and other like places and positions.	3070	30th Nov. 1865	James Turner Hall.
Lamps, lanterns and gas fittings - - -	3089	2nd Dec. 1865	William Johnston.
Cups or sockets applied to candles and other lights. (*Communicated by Cléanthe St. Coumbary.*)	3187	9th Dec. 1865	William Clark.
Producing an oxy-hydro-magnesian light, applicable to photographic purposes, to lighthouses, and to other illuminations. (*Communicated by Prospero Carlevaris.*)	3248	15th Dec. 1865	Thomas Parker.
Improved apparatus for burning combustible vapor (such as that from naphtha or coal oil) for heating, cooking and lighting purposes. (*Communicated by James Stratton.*)	3317	22nd Dec. 1865	George Davies.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*transparencies for lanterns, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Improvements in friction matches, in apparatus for using them, and in adapting them for lighting lamps. (*Communicated by Philos Blake Tyler.*)	3383	30th Dec. 1865	William Edward Newton.
For lamp burners, *see* "GAS BURNERS."			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LEATHER, SKINS AND HIDES; ARTIFICIAL LEATHER AND PARCHMENT; CURRYING, TANNING, CUTTING AND ORNAMENTING LEATHER.			
Dyeing leather - - - - -	168	19th Jan. 1865	Tasso Labrousse. John Keily.
Machinery or apparatus employed for fluting, dicing, cross graining, glazing and all kinds of jiggered work on skins or hides, and having a self acting table and revolving friction wheel or roller - - - - -	172	20th Jan. 1865	John Turney the younger. George Wood.
Improvements in tanning hides and skins, and in apparatus employed therein.	270	31st Jan. 1865	William Hinkes Cox.
Certain improvements in the manufacture of caoutchouc. (*for replacing leather.*) (*Communicated by Messieurs Léon Désiré Innocent and François Perroncel.*)	398	11th Feb. 1865	Peter Armand Le Comte de Fontaine Moreau.
Waterproofing skins, hides and leather - -	413	14th Feb. 1865	George Harton.
An improvved composition as a substitute for leather or other similar materials - -	465	18th Feb. 1865	Christopher Brakell. William Hoehl. William Günther.
Machinery for sewing or uniting leather and other hard substances, particularly applicable to the manufacture of boots and shoes.	484	21st Feb. 1865	Charles Baulch.
Preparing or treating hides for tanning - - (*Communicated by Wilhelm Martz.*)	631	6th March 1865	William Clark.
Engraving on metal - - - - - (*for printing on leather.*) (*Communicated by Narcisse Guilbot and Pierre Heriter.*)	807	22nd March 1865	Richard Archibald Brooman.
A new process of tanning leather and other skins -	1126	22nd April 1865	Emile Stanislas Beaux. Edward Pannifex.
Means and apparatus used for stretching woven fabrics and other materials. (*leather, skins, &c.*) (*Communicated by Jules Ducommun.*)	1239	3rd May 1865	William Clark.
Ornamentation of fabrics and leather - - (*Communicated by Miss Nathalie Kolb.*)	1389	19th May 1865	William Clark.
Improvements in tanning hides and in apparatus connected therewith. (*Communicated by Emile Stanislas Beaux and Edward Pannifex.*)	1554	7th June 1865	Arthur Charles Henderson.
Apparatus for "lap" and "surface shaving," the splitting and bevilling of leather and other like substances, in sheets and strips.	1635	17th June 1865	Henry Everard Clifton.
Compounds for waterproofing and insulating purposes.	1962	29th July 1865	Frederick Augustus Abel.
Apparatus used in rolling leather - - -	2007	2nd Aug. 1865	John Henry Tyler.
Improved machinery or apparatus for reducing the thickness of parts of calf skins or of other skins or hides. (*Communicated by Adolphe Bel.*)	2136	18th Aug. 1865	William Edward Gedge.
Improvements in tanning and in the preparation of extracts to be used therein. (*Communicated by Emanuel Desiré Coëz.*)	2231	30th Aug. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LEATHER, &c.—*continued.*			
Machines for splitting, shaving and paring hides, skins and leather.	2282	6th Sept. 1865	Henry Harrison Doty.
Improved means for rendering leather more durable and flexible	2357	15th Sept. 1865	Louis Gustave Sourzac. Louis Bombail.
An improved process for preparing skins and hides or leather, so as to render such substances waterproof and more durable than heretofore.	2516	30th Sept. 1865	John William Moore Miller.
Instruments for punching or perforating leather and other materials	2556	5th Oct. 1865	Edward Marsland. Peter Williams.
Apparatus for preparing skins for tanning and for currying or dressing the same. (*Communicated by Prosper Dumas.*)	2585	7th Oct. 1865	Henri Adrien Bonneville.
Tanning or treating hides applicable for machine bands and other purposes.	2591	7th Oct. 1865	William Harris.
Improvements in satchels and in the manufacture of the gussets of leather satchels, bags and purses, and of the gussets of other articles made of leather.	2707	20th Oct. 1865	Frederick Thompson.
An improved mode of uniting pieces of leather, more especially adapted to the manufacture of boots and shoes. (*Communicated by John Chipman Hoadley.*)	2750	25th Oct. 1865	George Haseltine.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Utilization of waste leather to be employed as a fertilizer. (*Communicated by Orazio Lugo.*)	3054	28th Nov. 1865	Alfred Vincent Newton.
Improvements in sewing-machines and in sewing or embroidering. (*sewing leather.*)	3079	1st Dec. 1865	Isaac Merritt Singer.
An improved leather shaving machine	3118	5th Dec. 1865	William Samuel Cluderay.
Manufacture of leather driving belts	3148	7th Dec. 1865	Clarke Duchesne Hitchcock. John Shimmon.
Utilizing scraps or small pieces of leather	3263	18th Dec. 1865	John Farmerley Dickson. John Barrs.
Machinery for splitting leather, skins and other similar articles. (*Communicated by Sewell Brown Noyes.*)	3277	19th Dec. 1865	George Tomlinson Bousfield.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for stiffening leather.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOCKS, LATCHES, BOLTS, LOCK FURNITURE; KEYS, SAFES, STRONG BOXES, MONEY TILLS.			
An improved method of preserving from fire books and other articles in safes.	71	9th Jan. 1865	Friedrich Wiese.
Construction of keys and locks - - -	92	11th Jan. 1865	John Fry Heather.
Improvements in tills and the means of securing and checking money taken by servants.	104	12th Jan. 1865	George Gaze.
A new or improved instrument for removing dirt from the inside of the barrels of keys, and an improvement in the manufacture of keys.	238	27th Jan. 1865	Robert Helsham.
Window safes for the protection of property - (*see* "SHOW CARDS.")	328	6th Feb. 1865	Robert Shaw.
Iron safes and strong rooms - - - -	364	9th Feb. 1865	John Chubb.
Fastenings for doors, windows, drawers and other like purposes - - - - - -	369	9th Feb. 1865	George Edward Meek. William Howes Howes.
Burglar-proof and fireproof safes - - -	439	15th Feb. 1865	Alexander Clark.
Safes - - - - - - -	450	16th Feb. 1865	Joseph Thompson.
An improved means of securing the safety of railway passengers.	454	17th Feb. 1865	Coleman Defries.
Iron safes and strong rooms - - -	459	17th Feb. 1865	James Fergusson.
New or improved indicating apparatus for the protection of railway passengers, buildings, rooms, safes and other objects - - - - - (*see* "SIGNALS.")	472	18th Feb. 1865	Leicester William Glen Rowe. Adolphe Baab.
Iron safes and strong rooms - - -	499	22nd Feb. 1865	George Nathaniel Shore.
Locks or fastenings for safes or strong boxes -	507	23rd Feb. 1865	Samuel Whitfield.
Manufacture of safes or strong boxes - -	508	23rd Feb. 1865	Walter Sandall Mappin.
Means and apparatus employed for protecting bullion, jewelry or other valuable property contained in safes, from being stolen or damaged by fire.	514	23rd Feb. 1865	Henry Kindon Taylor.
Fire and thief proof safes, chests and strong room doors.	543	27th Feb. 1865	Walter Henry Tucker.
A combined key and weapon of defence - - (*Communicated by Timoleon de Bourrousse de Laffore.*)	552	27th Feb. 1865	Richard Archibald Brooman.
Improvements in the construction of doors or other covers of safes or depositories, and in parts connected therewith, for the purpose of obtaining increased security.	559	28th Feb. 1865	John Matthias Hart.
Locks and bolts for fastening doors, door bars and drawers.	570	1st March 1865	Samuel Whitfield.
Improvements in the manufacture of safes and in apparatus connected therewith.	585	2nd March 1865	Samuel Chatwood.
Improved apparatus for the protection of houses and property from burglars, parts of the invention being applicable for other purposes.	619	6th March 1865	Cromwell Fleetwood Varley.
Safes - - - - - - -	621	6th March 1865	Samuel Phillips. Joseph Groves.
Iron safes - - - - - -	653	8th March 1865	Arthur Edwin Taylor.
An improved burglary alarum - - -	664	9th March 1865	William Henry Hudson.
Construction of fastenings or bolts for window sashes and other purposes.	672	10th March 1865	William Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOCKS, &c. —*continued.*			
Fire and burglar proof safes, chests, doors and iron rooms.	695	11th March 1865	John Tann.
An improvement in securing safes and strong rooms.	702	13th March 1865	Henry Hill.
Construction of safes for securing valuable articles from thieves and fire.	714	14th March 1865	Edmund Dorman Hodgson.
Construction of safes or receptacles for securing and protecting valuable property.	728	15th March 1865	Edward Loysel.
Locks for safes, strong rooms and other purposes -	778	20th March 1865	Samuel Chatwood.
Certain improvements in the fastenings to be employed in metallic "safes" or other similar depositories - - - - - -	903	31st March 1865	William Milner. Daniel Rowlinson Ratcliff.
Construction of safes or depositories intended to contain valuable property.	904	31st March 1865	Thomas Cook.
Improvements in locks, and in fixing knobs and spindles to doors and latches.	944	4th April 1865	Richard Nabbs.
Securing the doors of safes and other doors -	946	4th April 1865	George Curr Thompson.
Locks - - - - - - - - (*for safes.*)	999	7th April 1865	Nathan Gold Kimberley.
Construction of safes or receptacles for securing and protecting valuable property.	1000	7th April 1865	Thomas Skidmore.
Door locks and latches - - - - -	1043	12th April 1865	John Walker.
Bolting and locking arrangements for safe and other doors.	1045	12th April 1865	John Matthias Hart.
Iron safes and strong rooms - - -	1056	13th April 1865	John Chubb. Robert Goater.
Indicators and fastenings for watercloseets and other purposes.	1096	20th April 1865	Henry Kindon Taylor.
Locks and lock furniture - - - - -	1194	29th April 1865	Walter Henry Tucker.
Locks and other fastenings - - - - - (*Communicated by Paul Baudet.*)	1201	29th April 1865	William Clark.
An improved safety lock - - - - (*Communicated by Matthieu Prosper Marotte.*)	1402	22nd May 1865	William Edward Gedge.
Locks - - - - - - - - (*Communicated by James Hutson.*)	1406	22nd May 1865	William Hodson.
Mechanism for locking or fastening tiers or sets of drawers arranged in writing tables, cabinets, chests or other articles of furniture.	1462	27th May 1865	Ludwig Diele.
Keys of locks having through holes - -	1485	30th May 1865	Sidney Grafton.
Construction of locks - - - - -	1487	30th May 1865	John Calvert.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Fastenings for doors, windows, drawers and other like purposes - - - - - -	1578	9th June 1865	George Edward Meek. William Howes Howes.
Improved means or apparatus to be applied to doors and windows for the purpose of supporting or maintaining them in any required position when open, and in securing them when shut.	1581	10th June 1865	Arthur Hamilton Gilmore.
Preventing the forcing or wedging open iron safes, iron doors and strong rooms - - - -	1657	20th June 1865	James Parrish. Charles Thatcher. Thomas Glasscock.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOCKS, &c.—*continued.*			
Locks - - - - - - (*Communicated by Frank Grant Johnson, Edwin Devoe and Jay Jarvis Jones.*)	1735	29th June 1865	William Edward Newton.
Improvements in locks and latches, and in staples and spindles for the same.	1782	6th July 1865	George Carter.
Construction of locks and keys - - -	1812	8th July 1865	John Fry Heather.
Improvements in locks and in latch bolts for locks and latches.	1902	21st July 1865	James Walton.
Construction of safes or strong receptacles for the protection of property.	1911	22nd July 1865	William Diaper.
Improved mechanical arrangements or fastenings applicable to the doors and cases of safes and strong rooms, for the purpose of preventing the opening thereof by wedges or levers - -	1995	2nd Aug. 1865	Thomas Andrew. James Whiley Taylor.
An improved fastening or lock - - -	2003	2nd Aug. 1865	Richard Bailey. Joseph Eagland.
Burglar proof safes - - - - -	2006	2nd Aug. 1865	Herbert Allman.
Certain improvements in the mode of fixing safes, boxes or other depositories for the protection of papers or other materials from fire.	2081	11th Aug. 1865	Peter Carlsson Kjellberg.
An improved burglar proof lock - - (*Communicated by Charles Cushing Dickerman and Gilbert Smith.*)	2092	12th Aug. 1865	William Edward Newton.
Certain improvements in the manufacture of safes -	2121	17th Aug. 1865	Samuel Phillips. Joseph Groves.
Manufacture of locks - - - - -	2198	26th Aug. 1865	Edmund Dorman Hodgson.
Ice safes - - - - - -	2244	31st Aug. 1865	Henry Clarke Ash.
Improvements in the manufacture of metallic safes and strong rooms, and in apparatus connected therewith.	2265	2nd Sept. 1865	Samuel Chatwood.
Construction of iron safes, strong boxes and other receptacles.	2294	7th Sept. 1865	John Matthias Hart.
Apparatus connected with safes for protecting valuables from fire - - - -	2318	9th Sept. 1865	Adolf Erik Nordenskiöld. John William Smitt.
Locks for trunks, bags, dressing-cases and other like articles. (*Communicated by Nicolas Chrétian Goynaud.*)	2360	15th Sept. 1865	Richard Archibald Brooman.
An improved apparatus or mechanism for locking and unlocking railway carriage doors, and for making signals with reference thereto.	2442	23rd Sept. 1865	John Hawkins Simpson.
Improvements in the construction of safes, strong rooms and other similar depositories, and in the locks thereof - - - - - -	2457	26th Sept. 1865	Claude Parigot. Antoine Grivel the younger.
Locks and latches - - - - -	2484	28th Sept. 1865	Cyrus Price.
Fasteners for doors - - - -	2506	6th Oct. 1865	Charles Fitz Gerald.
Locks - - - - - - -	2852	4th Nov. 1865	William Gardner.
Locks and such like fastenings - - -	2879	8th Nov. 1865	Jules Adolphe Rainé.
Improvements in the construction of door locks, latches and such like fastenings, and in knob and handle spindles and furniture used therewith.	2889	9th Nov. 1865	Benjamin Pitt.
Locks or catches for portmonnaies, portfolios or other articles - - - - -	2939	15th Nov. 1865	George Chambers. George Gregory.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOCKS, &c.—*continued.*			
Fastenings for safe doors and other doors and lids, and for other like purposes.	2979	20th Nov. 1865	Joseph Beverley Fenby.
Locks - - - - - - (*Communicated by William Hodson and James Hutson.*)	2991	21st Nov. 1865	Frederic Pope.
Manufacture of safes - - - - -	3085	1st Dec. 1865	William Fothergill Batho.
Improvements in the construction of safes, strong rooms and other similar depositories, and in the locks thereof.	3169	9th Dec. 1865	Antoine Grivel the younger.
Improvements in locks and latches, and in attaching the knobs of locks and latches and other knobs to their spindles - - - - - -	3274	19th Dec. 1865	John Thomas Dawes. John Robbins.
Improvements in the furniture of door locks and latches and in the means used in applying the same.	3290	20th Dec. 1865	John Martin.
Fireproof safes - - - - -	3305	21st Dec. 1865	John William Blackman.
Improvements in the manufacture of safes and in apparatus connected therewith.	3321	23rd Dec. 1865	Samuel Chatwood.
Improvements in safes and in protecting the locks and bolts of safes, and other locks and bolts -	3324	23rd Dec. 1865	Joseph Groves. George Robinson the younger.
Locks and keys for the same - - - (*Communicated by Edrick Francis Young and Joshua Granville Nickerson.*)	3382	30th Dec. 1865	William Edward Newton.
LOOKING GLASSES AND FRAMES.			
Improvements appertaining to reflectors - -	288	2nd Feb. 1865	Alexander Southwood Stocker.
Manufacture of mirrors - - - - (*Communicated by Louis Paul Angenard.*)	554	27th Feb. 1865	George Haseltine.
Improvements in the manufacture of looking glasses or mirrors, and in apparatus employed therein. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	786	21st March 1865	John Henry Johnson.
Manufacture of frames for looking glasses - -	1564	8th June 1865	Henry Hunt. Richard Hunter.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*for coating mirrors.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Improvements in the ornamentation of glass and in the applications of glass so ornamented. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	2038	5th Aug. 1865	John Henry Johnson.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes. (*applicable to looking-glasses.*)	3093	2nd Dec. 1865	Thomas Aldridge Weston.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
LOOKING GLASSES, &c.—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for mirror frames.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
MANGLING, IRONING, GOFFERING, ROUCHING.			
Washing, squeezing and mangling machinery	32	5th Jan. 1865	John William Branford.
Apparatus for ironing and dressing woollen and other tissues. (*Communicated by André Lyon.*)	146	18th Jan. 1865	François Paul Henri Cahuzac.
A chemical combustible substance and apparatus to which it is applicable. (*heating smoothing irons, goffering cylinders, &c.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
An improved machine for washing, wringing and mangling.	837	24th March 1865	James Andrew Swanzy.
Mangles	1217	1st May 1865	William Watts. John Joseph Cooper.
Machinery for stretching cotton and other fabrics or materials. (*applied to mangles.*)	1317	12th May 1865	James Hesford.
An improved mangle	1418	24th May 1865	Henry Nunn.
An improved plain or graduated gophering or puffing and pressing machine	1444	26th May 1865	Charles Cotton. Francis Anderson. Daniel Booker.
An improvement or improvements in the manufacture of the handles of smoothing irons or sad irons, which said improvement or improvements may also be applied to the manufacture of the handles of various other articles.	1796	7th July 1865	Thomas Sheldon.
Machinery for washing, wringing, mangling and drying dresses clothes or other fabrics and fibrous substances	1827	10th July 1865	Henry Fearnley. Christopher Smith.
An improved apparatus for washing, a portion of the same being applicable for washing and wringing.	1917	22nd July 1865	William Wapshare.
Manufacture of harrows	2958	15th Sept. 1865	John Whitehouse.
An improved arrangement and combination of the working parts of machinery or apparatus employed for washing, wringing and mangling clothes and fabrics.	2950	25th Sept. 1865	George Frederic Smeeton.
Apparatus for mangling and calendering	3297	4th Oct. 1865	Robert Walmsley.
Apparatus for [illegible] fabrics	3347	13th Oct. 1865	William Robertson. James Guthrie Orchar.
Clothes washing and drying machines	3393	2nd Nov. 1865	William Bown West.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MANTEL-PIECES.			
Manufacture and application of glass and other vitreous compositions - - - - - (*for chimney-pieces.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*for chimney-pieces.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
MANURE; TREATING SEWAGE.			
An improved method of treating apatite and other mineral phosphates. (*Communicated by Mr. John Oliver.*)	3	2nd Jan. 1865	Montague Richard Leverson.
Improvements in the manufacture of oxygen gas and in treating and economizing the residual products of the said manufacture - - (*obtaining a compost or fertilizer for cereals.*)	5	2nd Jan. 1865	John Frederick Parker. Joseph Tanner.
Treating guano - - - - - -	50	6th Jan. 1865	Thomas Richardson. Martin Diederich Rücker.
Treating phosphates of lime and salts of potass and soda in order to fit them for agricultural uses. (*Communicated by Georges Ville.*)	140	17th Jan. 1865	Richard Archibald Brooman.
Manufacture of manure - - - - -	202	23rd Jan. 1865	Benjamin King.
Preparation of superphosphate of lime - - (*Communicated by Robert Barnhill Potts.*)	320	4th Feb. 1865	William Edward Newton.
Improvements in treating sewage and in arranging apparatus in sewers and culverts to facilitate the ventilation of such structures.	451	16th Feb. 1865	Richard Smith.
An improved mode of preparing fertilizing compounds or artificial manures. (*Communicated by Gustave Adolph Liebig.*)	512	23rd Feb. 1865	William Edward Newton.
An improved process for reducing or preparing waste animal matters, for the purpose of employing the same in the preparation of manures or fertilizing compounds.	893	29th March 1865	William Moxon Fuller.
Manufacture of soluble and assimilable superphosphates of lime, by the application of phosphoric acid and acid phosphates. (*Communicated by Lucien Henri Blanchard and Théodore Chateau.*)	1161	25th April 1865	William Clark.
Obtaining certain compounds of nitrogen and of sulphur - - - - - -	1385	19th May 1865	Thomas Richardson. Martin Diederich Rücker.
Certain improvements in the manufacture of lime - (*for agricultural purposes.*) (*Communicated by Monsieur Louis Poulet.*)	1467	29th May 1865	Peter Armand Le Comte De Fontaine Moreau.
Certain improvements in the manufacture of superphosphate of lime from guano. (*Communicated by Gustave Adolph Liebig.*)	1790	6th July 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MANURE, &c.—*continued.*			
An improved process of preparing sea weeds and other vegetable substances for the production of artificial guano, felt, alkaline salts and iodine.	1877	19th July 1865	Donald M^{c}Crummen.
Preparation of soils to promote general vegetation - (*applying metallic oxides.*)	1935	26th July 1865	Thomas Spencer.
Manufacture of the straw of rye and other straws and grasses into fibre, and utilising the refuse. (*for artificial manures.*)	2171	23rd Aug. 1865	Edward Henry Cradock Monckton.
Means and apparatus to be employed in the manufacture of sugar. (*applying refuse of sugar refining as manure.*) (*Partly communicated by Absalom Hippolyte Leplay.*)	2606	10th Oct. 1865	Jean Adolphe Léon.
The utilization of town sewage for agricultural purposes, and also to prevent the pollution of rivers and streams, and the machinery and apparatus for effecting the same.	2626	12th Oct. 1865	John Linton.
Manufacture of paper from marine vegetable matters (*refuse used as manure.*) (*Communicated by Pierre Ernest Gégnon and Charles Marie Gagnage.*)	2741	23rd Oct. 1865	William Clark.
Treatment and deodorization of sewage water -	2808	31st Oct. 1865	Henry Young Darracott Scott.
Artificial manure - - - - -	2830	2nd Nov. 1865	George Bartlett.
Utilization of waste leather to be employed as a fertilizer. (*Communicated by Orazio Lugo.*)	3054	28th Nov. 1865	Alfred Vincent Newton.
Manufacture of disinfectants - - - (*for manure.*)	3115	4th Dec. 1865	John Thomlinson.
Apparatus employed in grinding corn and other substances capable of being ground by millstones. (*coprolites, bones, &c.*)	3126	5th Dec. 1865	Edward Alfred Cowper.
MAPS AND GLOBES.			
Dissected maps and charts - - - (*Communicated by François Auguste Laurecisque.*)	1137	24th April 1865	Henri Adrien Bonneville.
A covering or cap for protecting the ends of maps, drawings, rolls of paper and other materials that are capable of being rolled up.	3175	9th Dec. 1865	Saint George Howels Davies-Gwyn.
MATCHES, FUSES, PIPE AND CIGAR LIGHTS.			
An improvement in machines for cutting match splints, toothpicks and similar articles.	74	10th Jan. 1865	Jonathan Clark Brown.
Improvements in the construction of shells, and in the explosive powder and fuse to be used therewith and for other purposes.	136	16th Jan. 1865	John Berkeley Cotter.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MATCHES, &c.—*continued.*			
Mechanism applicable to frame-filling machines for wooden matches, vestas and vesuvians.	1003	8th April 1865	Henry Joseph Simlick.
The manufacture of an improved safety fuse -	1049	12th April 1865	John Soloman Bickford.
Cases or receptacles for matches, stamps, cards and other articles - - - - - -	1121	21st April 1865	George Betjemann. George William Betjemann. John Betjemann.
An improved pocket lantern - - - (*Communicated by John Augustus Minor.*)	1513	1st June 1865	William Edward Newton.
Fuses and projectiles for rifled ordnance - - (*Communicated by Benjamin Berkley Hotchkiss.*)	1552	6th June 1865	George Haseltine.
Fuses for shells for ordnance - - - (*Communicated by Frederika Schenkl.*)	1595	13th June 1865	George Haseltine.
Fuses for shells - - - - - -	1989	1st Aug. 1865	Andrew Noble.
Friction matches, lucifer matches, and matches for relighting, called taper matches.	2153	21st Aug. 1865	Gideon G. Dennis.
Apparatus for lighting and heating, suitable for sick rooms and nurseries, and applicable also as holders for matches, watches and other necessary articles. (*Communicated by François René Menand and Charles Louis Marie Menand.*)	2515	30th Sept. 1865	John Henry Johnson.
Machinery or apparatus for the manufacture of wooden spills.	2577	6th Oct. 1865	Thomas Machin.
Improvements in block matches and in machinery for making the same - - - - -	2690	18th Oct. 1865	James Whitford Truman. Henry Lovi.
An improved apparatus for igniting cigars or tobacco.	2868	7th Nov. 1865	Hyde Bateman.
Certain improvements in cutting or dividing timber, and in the machinery or apparatus connected therewith. (*for lucifer matches.*)	2923	13th Nov. 1865	John Jex Long.
An improvement in the manufacture of friction matches and tapers.	3002	22nd Nov. 1865	Samuel Alexander Bell.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - -	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
An improved mode of igniting cigars, cigarettes, and other similar articles.	3360	28th Dec. 1865	Charles Laurieston Willyams Kneller.
Improvements in friction matches, in apparatus for using them, and in adapting them for lighting lamps. (*Communicated by Philos Blake Tyler.*)	3383	30th Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEASURING AND GAUGING LENGTH, SIZE AND QUANTITY; LOOM AND OTHER MACHINE REGISTERS; APPOINTMENT AND DATE INDICATORS; CHECKS FOR CASH TAKING.			
Improved means of checking the receipts of railway clerks.	28	4th Jan. 1865	William Henry Roy.
An improved apparatus for registering the distance travelled by vehicles or the speed of machinery.	91	11th Jan. 1865	Claude Marie Bathias.
Improvements in tills and the means of securing and checking money taken by servants.	104	12th Jan. 1865	George Gaze.
Apparatus for counting coins of money, tickets and other similar articles, and indicating the number thereof.	383	11th Feb. 1865	Jacob Schneuhr.
An improved winder and arrangement for winding and putting up velvet and other ribands - -	389	11th Feb. 1865	Theodor Anton Verkruzen. Moritz Anton Verkruzen.
Stoppering bottles or other similar vessels, and measuring quantities therefrom.	414	14th Feb. 1865	William Conway Hine.
Certain improvements in mechanism or apparatus for "blocking," rolling and measuring calico, linen, flannel or other woven fabrics - -	536	25th Feb. 1865	Thomas Dronsfield. Thomas Edwin Jones. John Ashton.
An improved method of and means or apparatus for measuring the human body.	635	7th March 1865	John Heselgrave Wilson.
Tablets, tickets or instruments to be used when drawing lots and prizes, and for such like purposes.	1196	29th April 1865	Charles Gammon.
Jacquard and indexing machines - - -	1261	5th May 1865	Joseph Wadsworth. Henry Dusset. James McMurdo.
Apparatus for measuring the human figure for garments.	1528	3rd June 1865	Edward Eastman.
Apparatus for the reception of coin - - - (*fares and entrance money.*)	1675	22nd June 1865	Julian Moses Abrams.
Improved apparatus for gauging and marking the width of tucks and pleats on fabrics under operation in sewing-machines.	1811	8th July 1865	George Baldwin Woodruff.
Checking or controlling the payment of fares in cabs and other public vehicles. (*Communicated by Léon Becker and Joseph Leib.*)	2029	4th Aug. 1865	Henri Adrien Bonneville.
An improved numerical registering machine -	2035	5th Aug. 1865	Samuel Buxton.
Apparatus for taking measurements - - (*Communicated by George Beard.*)	2112	16th Aug. 1865	William Clark.
A new or improved date and other indicator, together with an improved method of arranging the date papers thereon.	2565	6th Oct. 1865	Louis Rollier Whitehead.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles.	2613	10th Oct. 1865	Arthur Nicholls.
Apparatus for finishing textile fabrics - -	2647	13th Oct. 1865	William Robertson. James Guthrie Orchar.
Machinery or apparatus for reeling silk, cotton or other fibrous threads, in the form of skeins. (*count and stop motions.*)	2826	2nd Nov. 1865	Enoch Rushton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEASURING LENGTH, &c.—*continued.*			
Machinery for measuring woollen and other cloths	2862	6th Nov. 1865	William Hebdon.
Steering indicators and tell-tales - - -	2864	7th Nov. 1865	Charles Jullien Viehoff. James Adolphe Matthiesen.
Apparatus for separating dust from the gases evolved from blast furnaces.	2885	8th Nov. 1865	Charles Cochrane.
An improved method of draughting patterns for coats, waistcoats and other close fitting garments, and apparatus to be used in obtaining the measurements for the same - - -	2955	17th Nov. 1865	John Henry Smith. George Robert Smith.
Improvements in and adaptation of cylinder printing machines to the double purpose of letter press and lithography, also a new mode of damping litho stones, and a new mode of registering and pointing in such machines.	2999	22nd Nov. 1865	Thomas William Nicholson.
Apparatus for registering the speed of machinery, and apparatus for registering the pressure of steam and other fluids - - - -	3077	30th Nov. 1865	James Lee Norton. James Landless.
An improved apparatus for apportioning the fodder of horses, cattle and other domestic animals.	3237	14th Dec. 1865	Jacques Masson.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for measuring lines.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
For measuring angles, *see* "COMPASSES."			
MEASURING AND REGISTERING PROGRESS OF LOCOMOTIVES, CARRIAGES AND SHIPS; COUNTING AND MILEAGE APPARATUS OR TURNSTILES FOR CABS, &c.; LOGS AND SOUNDERS.			
An improved apparatus for registering the distance travelled by vehicles or the speed of machinery.	91	11th Jan. 1865	Claude Marie Bathias.
Improvements applicable to ships' logs and sounding machines.	233	26th Jan. 1865	John Edward Massey.
An improved arrangement of and addition to certain parts of omnibuses and other vehicles to indicate the number of passengers carried.	586	2nd March 1865	John Kirkland.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Ships' logs - - - - - -	1830	11th July 1865	Frederick Massey.
An improved mode of transmitting motion to the styles or hands of the dials of counters used for indicating and registering the distances public vehicles or private carriages travel.	2736	23rd Oct. 1865	Mathieu Julien, sen^{r}.
An improved self-acting regulator or dial applicable to all descriptions of public conveyances.	2890	9th Nov. 1865	Joseph Ernest Avy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEDICAL TREATMENT OF ANIMALS, CLEANSING HORSES.			
An improved application of rotating brushes to the grooming or cleaning of horses and other quadrupeds.	1038	12th April 1865	John Haworth.
Preparation of sheep ointment - - -	3208	12th Dec. 1865	Charles Knowles Tomlinson. Charles John Hayward.
Improvements in the treatment of animals intended for human food, and in the preservation of meat.	3293	20th Dec. 1865	John Gamgee.
MEDICINES AND CURATIVE APPARATUS; MEDICAL BATHS; INHALING AND RESPIRATORY APPARATUS.			
An improved portable pneumatic apparatus applicable in surgery and medicine for all purposes as a douche, for affusion, irrigation, injection, and for enemas.	16	3rd Jan. 1865	Thomas John Ashton.
Impregnating air for hygienic or therapeutic purposes with the vapours or emanations arising from tar, creosote or other suitable liquid antiseptic or antiputrid substances, or disseminating in the air for the said purposes suitable pulverized subtances.	112	13th Jan. 1865	Antoine Joseph Sax.
Stoppering bottles or other similar vessels, and measuring quantities therefrom. (*for medicines.*)	414	14th Feb. 1865	William Conway Hine.
A new or improved invalid or siphon drinking cup	437	15th Feb. 1865	Robert Henry Emerson.
Certain improvements in the manufacture of magnesium and its compounds - - - (*sulphate of magnesia.*)	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.
Obtaining sulphates and carbonates of potash and soda.	460	17th Feb. 1865	Charles Frederick Claus.
A new febrifuge and digestive elixir - - - (*Communicated by Monsieur Alexandre Gascon.*)	874	28th March 1865	Alexandre Denis Gascon.
Improved apparatus for administering nourishment to the sick or infirm. (*Communicated by Bernard Maillet.*)	1140	24th April 1865	William Edward Gedge.
A new and improved food or fluid regulator for feeding bottle and other tubes.	1727	28th June 1865	William Botham.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for inhalation.*)	1780	6th July 1865	Hermann Beigel.
An improved self-acting apparatus for obtaining a circulation of volatile liquids. (*infusing drugs.*) (*Communicated by Messieurs Françisque Massot and Auguste Juquin.*)	1816	8th July 1865	Hector Auguste Dufrené.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MEDICINES, &c.—*continued.*			
A combination of improved method, apparatus and receptacles for storing, preserving, transferring and discharging certain fluids, for sanitary and protective purposes. (*Communicated by Henry Pinkus.*)	2096	14th Aug. 1865	Robert Alexander William Westley.
A new medicine for the cure of the diseases of the stomach (dyspepsy, cardialgy, indigestion) and the hemorrhoids.	2123	17th Aug. 1865	Oscar Laurence.
Improved machinery for mixing or grinding ointment, paints, drugs and other substances.	2290	6th Sept. 1865	Thomas Charles Gibson.
Apparatus for administering injections and douches to the human body.	2555	5th Oct. 1865	William Robert Barker.
A new or improved apparatus for producing artificial respiration.	2721	21st Oct. 1865	William Hills Kitchen.
Bath apparatus - - - - - - (*Communicated by Aloys Büngens.*)	2749	25th Oct. 1865	William Clark.
Apparatus employed in grinding corn and other substances capable of being ground by millstones. (*drugs.*)	3126	5th Dec. 1865	Edward Alfred Cowper.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - - -	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
Manufacture of bichloride of carbon, and chloride of sulphur. (*an anæsthetic.*)	3253	15th Dec. 1865	Richard Ransford.
METALLIC SALTS AND OXIDES.			
Purification of lead to be employed for the manufacture of white lead, red lead and litharge.	310	4th Feb. 1865	John Arthur Phillips.
Production of substances to be used in place of the pigment usually termed satin white.	371	9th Feb. 1865	John Dale.
Certain improvements in the manufacture of magnesium and its compounds - - -	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.
Preparation of hydrated oxide of chromium - - (*Communicated by Charles Kestner.*)	788	21st March 1865	Richard Archibald Brooman.
Apparatus employed in the concentration of all solutions where quick or speedy concentration or evaporation is required. (*manufacture of chloride of sodium.*)	872	28th March 1865	William Walsh.
An improved system of manufacturing salts, sulphates and acetates of chrome, and of applying them as mordants, in dyeing and printing textile substances both animal and vegetable.	1905	21st July 1865	Jean Henri Chaudet.
Preparation of soils to promote general vegetation - (*applying metallic oxides.*)	1935	26th July 1865	Thomas Spencer.
Manufacture of white lead - - - - -	2427	22nd Sept. 1865	Peter Spence.
Treating the oxide of iron residues of gas purifying, in order principally to extract sulphur therefrom.	3099	2nd Dec. 1865	Thomas Bell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALLIC SALTS, &c.—*continued.*			
Improvements in smelting copper and in obtaining products from the gases and vapours given off during the said smelting. (*collecting arsenic compounds.*)	3267	18th Dec. 1865	Henry Causer Ensell.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for imitating malachite.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Manufacture of acetate of lead - - - (*Communicated by Jules Fournier Laigny.*)	3368	29th Dec. 1865	Richard Archibald Brooman.
METALS.			
I.—Smelting, Extracting and Reducing Metals; Treating Ores; Refining, Tempering and Annealing Metals; Manufacture of Iron and Steel; Metallic Alloys.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - - - (*for blast furnaces.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Improvements in smelting zinc ores and in apparatus employed therein.	46	6th Jan. 1865	Arthur Reynolds.
Manufacture and refining of iron and steel - -	59	7th Jan. 1865	William Baker.
Furnaces - - - - - - (*Communicated by Dominique Chiado.*)	103	12th Jan. 1865	Michael Henry.
Furnaces - - - - - -	110	13th Jan. 1865	William Smith Longridge. James Mash.
An improved method of purifying and oxidizing metallic ores.	160	19th Jan. 1865	Melchor Beltzhoover Mason.
Improvements in puddling, heating and other reverberatory furnaces used in the manufacture of iron and steel and for other purposes, which improvements may also be applied to steam-boiler furnaces.	173	20th Jan. 1865	John Hewes.
A new or improved process or method of treating articles of cast iron and of cast iron mixed with other metals. (*hardening.*)	192	23rd Jan. 1865	Perceval Moses Parsons.
Furnaces for melting metals and smelting ores -	209	24th Jan. 1865	William Woodward. Robert Woodward. John Woodward. Adam Woodward, jun^{r}.
Improvements in lining the sides and bottoms of puddling furnaces and other furnaces employed in the manufacture of iron or steel, and in mending, repairing and fettling the sides and bottoms of the said puddling and other said furnaces.	224	26th Jan. 1865	Robert Mushet.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting*)—*continued.*			
Manufacture of iron and steel	229	26th Jan. 1865	Jacob Geoghegan Willans.
Furnaces	240	27th Jan. 1865	Charles de Bergue.
Coating the bottoms and sides of ships and other submerged structures, to prevent fouling and decay. (*amalgam.*)	284	1st Feb. 1865	John Moysey.
Purification of lead to be employed for the manufacture of white lead, red lead and litharge.	310	4th Feb. 1865	John Arthur Phillips.
Improvements in furnaces for smelting iron ores, commonly called blast furnaces, also in cupolas used in founderies, for rendering down or melting iron or other metals.	374	10th Feb. 1865	Evan Leigh.
Extracting and separating gold and silver from their ores or matrices.	391	11th Feb. 1865	William Crookes, F.R.S.
Case hardening or converting partially into steel, articles of wrought or malleable iron. (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
Cupolas and blast furnaces	397	11th Feb. 1865	Henry Houldsworth Grierson. John Macvicar Rigby.
Manufacture of sheet iron (*Communicated by Daniel Pratt.*)	409	13th Feb. 1865	William Edward Newton.
Furnaces for smelting or reducing ores and for melting metals	411	14th Feb. 1865	Herbert John Walduck. Edward Barton.
Manufacture of cast and wrought iron (*Communicated by Anthony Leonard Fleury.*)	419	14th Feb. 1865	Edwin Henry Newby.
Furnaces	443	16th Feb. 1865	Edward Brown Wilson.
Certain improvements in the manufacture of magnesium and its compounds	456	17th Feb. 1865	John Osborne Christian, F.C.S. John Charlton. Henry Charlton.
Treating products obtained when coating iron with zinc.	469	18th Feb. 1865	James Graham.
Improvements in the manufacture of iron and in articles made thereof.	470	18th Feb. 1865	William Robinson.
Improvements in puddling furnaces and in apparatus connected therewith.	473	18th Feb. 1865	John Gay Newton Alleyne.
An improvement in the utilization of the waste gases of blast furnaces.	478	20th Feb. 1865	Joseph Cliff.
Preparation of certain iron ores or residues for use in the blast furnace.	534	25th Feb. 1865	Frederic Claudet.
Treatment of certain products obtained in the smelting of iron	580	2nd March 1865	Thomas Horton. David Simpson Price.
Improvements in converting cast iron or pig iron into wrought iron or steel, and in machinery employed therein.	649	8th March 1865	Morgan Morgans.
Stoves for heating air supplied to blast furnaces	650	8th March 1865	Richard Howson.
An improved manufacture of iron forgings	654	8th March 1865	William Clay.
Manufacture of steel and homogeneous iron	657	9th March 1865	Robert Mushet.
An improvement in the construction of hot air stoves for blast furnaces.	666	9th March 1865	Joseph Cliff.
Manufacture of iron and steel	689	11th March 1865	James Henderson.
Furnaces and fire-places	692	11th March 1865	Edward Brown Wilson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting*)—*continued.*			
Apparatus for treating metals and metallic ores -	697	13th March 1865	Robert Martin Roberts.
Puddling, heating and other furnaces - -	700	13th March 1865	Joseph Wright.
Improvements in drying and sorting coals, peat and mineral ores, in separating extraneous matters therefrom, and in apparatus used in those processes.	715	14th March 1865	Ferdinand Henry Warlich.
Water twyers for blast furnaces - - - (*Partly communicated by Mr. Norris Best.*)	722	15th March 1865	Nathaniel Neal Solly.
Apparatus for smoke vents or chimneys - -	724	15th March 1865	Thomas Kennedy.
Heating preparatory to and for the purpose of hardening or tempering of knives, files, tools, and all other descriptions of cutlery or hardware usually subject to the process of hardening or tempering.	747	17th March 1865	Henry Wethered.
Manufacture of puddled iron bars and every description of malleable iron - - - -	777	20th March 1865	Robert Thompson Crawshay. Isaac Arriston Lewis.
Machinery for working puddled balls or blooms of iron and steel.	779	20th March 1865	William Menelaus.
Manufacture and refining of iron and steel - -	806	22nd March 1865	Morgan Morgans.
Hardening and tempering steel - - -	880	28th March 1865	Elliot Savage.
Furnaces or apparatus for heating the blast for furnaces used in smelting iron and for other furnaces.	891	29th March 1865	John Player.
A new or improved mode of rapidly reducing, cementing and melting and other ores, also iron slag or cinders, dross and scales or crust, to produce directly therefrom steel or malleable or cast iron. (*Communicated by Jean Baptiste Helson.*)	899	30th March 1865	William Brookes.
Apparatus applicable to furnaces for smelting ores and melting metals - - - - -	942	3rd April 1865	Henry Brook. John Eastwood. George Brook, junr.
Manufacture of balls, blooms or slabs of malleable iron or steel.	957	4th April 1865	John Player.
New or improved apparatus for separating or sorting and washing ores, minerals, coal, emery and other substances in a granular or pulverulent state. (*Communicated by Charles Prieger and Theodor Hundt.*)	963	5th April 1865	Henry Simon.
An improved rabble or bar used in puddling iron -	968	5th April 1865	George Walter Dyson.
Manufacture of iron and steel - - -	1023	11th April 1865	Charles Vaughan.
Arrangement of furnaces used for puddling and reheating iron, the generation of steam and other similar purposes.	1064	13th April 1865	William Beardmore.
Improvements in the manufacture of iron, and in preparing fuel to be used in the manufacture and melting of iron.	1153	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
Furnaces used for smelting and melting iron and other metals.	1183	27th April 1865	William Balk.
Furnaces - - - - - - -	1186	27th April 1865	Dundas Simpson.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metal.	1206	1st May 1865	Henry Bessemer.

Subject-matter of Patent.	Number of Patent.	Date	Name of Patentee.
METALS (*Smelting*)—*continued.*			
Means and apparatus for puddling iron - -	1221	1st May 1865	Thomas Frederick Cashin. Joseph Felix Allender.
Extracting copper and several other metals from certain ores of these metals.	1255	5th May 1865	William Henderson.
Manufacture of iron and steel - - -	1310	11th May 1865	Joseph Bennett.
Improvements in the treatment of the waste liquors obtained after treating burnt ores of copper, such improvements having for their object the production or extraction of cobalt and nickel.	1352	16th May 1865	William Wright.
Cupola and other blast furnaces - - -	1448	26th May 1865	Richard Canham.
Improvements in the manufacture of steel, and in furnaces used in such manufacture. (*Communicated by Jules Paulis.*)	1460	27th May 1865	Louis Moser.
Annealing pots and saucers for annealing iron and steel wire, sheet metal and other articles.	1480	30th May 1865	John Hibell.
Certain improvements in the manufacture of iron and steel, and in apparatus connected therewith.	1506	1st June 1865	Herbert Allman.
Manufacture of steel - - - - -	1560	7th June 1865	John Ferguson. Robert Miller.
Preparation of magnesium for illuminating purposes (*Communicated by François Pierre Le Roux.*)	1695	24th June 1865	Joseph Solomon.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
A new or improved self-acting apparatus for distributing the feeding materials in high furnaces. (*such as ores.*) (*Communicated by Emile Langen.*)	1733	29th June 1865	Alexander Prince.
Improvements in the conversion of wrought or malleable iron into steel, and in the means or apparatus employed therein.	1776	5th July 1865	John Jobson. John Farmerley Dickson.
Manufacture of iron - - - - (*Communicated by John Williams and Josiah Copley.*)	1793	7th July 1865	James Marius Macrum.
Manufacture of cast steel - - - - (*Communicated by Charles Pauvert.*)	1813	8th July 1865	Richard Archibald Brooman.
Treatment of copper and nickel ores - - (*Communicated by Viscount Charles de Secqueville.*)	1831	11th July 1865	Hector Auguste Dufrené.
An improved process for obtaining oxygen - - (*to melt metals.*) (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Separating gold from ores containing copper and and gold.	1855	14th July 1865	Andrew Edward Molin.
Construction and working of furnaces for puddling, balling, heating and melting metals.	1882	19th July 1865	David Caddick.
Manufacture of pots and crucibles wherein metals and other materials may be heated or melted.	1884	19th July 1865	George Nimmo.
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings.	1885	19th July 1865	George Nimmo.
Means or method of applying mineral oils for generating steam and heat. (*for smelting.*) (*Partly communicated by Alexandre Szpis.*)	1928	25th July 1865	Wladslaus Zbyszewski.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting*)—*continued.*			
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases used in smelting.*)	1952	27th July 1865	Henry Sherwood.
Manufacture of iron and steel - - - (*see* "METALS—*Forging.*") (*Communicated by Martin Dieudonné Henvaux.*)	1964	29th July 1865	Ephraim Sabel.
Manufacture of iron - - - - -	1970	29th July 1865	William Worthington Biggs.
Improved means of testing alloys of gold - -	1994	2nd Aug. 1865	Henry Levy.
Machinery to be used in the manufacture of plate or sheet iron and steel. (*Communicated by Martin Dieudonné Henvaux.*)	2012	3rd Aug. 1865	Ephraim Sabel.
Machinery to be used in the manufacture of iron - (*Communicated by Martin Dieudonné Henvaux.*)	2018	4th Aug. 1865	Ephraim Sabel.
Improvements in and connected with the manufacture of copper.	2100	14th Aug. 1865	James Thomas Lockey.
Furnaces to be used in the manufacture of glass and iron and steel, and for other like purposes. (*Communicated by Henning Boetius.*)	2105	15th Aug. 1865	John Frederick Boetius.
Improvements in the preparation or production of spongy metals, and in their applications. (*Communicated by François Drivet.*)	2106	15th Aug. 1865	John Henry Johnson.
Manufacture of cast steel and cast iron, and the manufacture of a mixed metal. (*Communicated by Emile Martin and Pierre Emile Martin.*)	2137	18th Aug. 1865	Richard Archibald Brooman.
An improved furnace for annealing iron and steel wire or rods.	2166	23rd Aug. 1865	John Howard Scott.
Improvements in the manufacture of steel iron and metal suitable for bearings, and in apparatus for the same.	2175	24th Aug. 1865	William Colborne Cambridge.
Improvements in condensing and utilizing sulphurous smokes and vapours, and in apparatus to be used for that purpose. (*from smelting works.*)	2216	29th Aug. 1865	Adolf Gurlt.
Improvements in extracting and separating gold and silver from their ores or matrices, and in the treatment of mercury employed for such purposes.	2229	30th Aug. 1865	William Crookes, F.R.S.
Manufacture of iron - - - - -	2307	9th Sept. 1865	William Unwin.
Apparatus used for calcining and roasting copper and other ores and substances containing sulphur - - - - - -	2350	14th Sept. 1865	Thomas Bell. Thomas Lesslie Gregson Bell.
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron -	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Improvements in and applicable to furnaces for the consumption of smoke. (*smelting-furnaces.*)	2405	21st Sept. 1865	William Watkin.
Improvements in blast furnaces and in charging the same. (*Communicated by Alexandre Ledoux-Vieing.*)	2413	21st Sept. 1865	Richard Archibald Brooman.
Manufacture of balls, blooms or slabs of malleable iron or steel.	2444	23rd Sept. 1865	John Player.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting*)—*continued.*			
Manufacture of iron	2448	25th Sept. 1865	William Unwin.
Manufacture of cast iron, malleable iron and steel	2456	26th Sept. 1865	Nicholes Korshunoff.
Manufacture of iron and steel, and of furnaces and machinery for purifying, puddling or heating the same	2461	26th Sept. 1865	Thomas Frederick Cashin. Joseph Felix Allender.
Separating phosphorus from iron and other metals, in metallurgical processes.	2482	27th Sept. 1865	Carl Heinrich Ludwig Wintzer.
Collecting or drawing off the gases from blast furnaces	2507	29th Sept. 1865	John Addenbrooke. George Addenbrooke. Philip Anthony Millward.
Blast furnaces	2528	2nd Oct. 1865	Silas Covell Salisbury.
Machinery employed for crushing, amalgamating and washing gold quartz and and other minerals or matters containing gold or other metal. (*Communicated by James Hart.*)	2643	13th Oct. 1865	William Halse Gatty Jones.
Apparatus for applying carbonic and other gases to iron and other metals in a molten state.	2657	14th Oct. 1865	James Cartmell Ridley.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes (*puddling furnaces.*)	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
Treatment of copper ores in the manufacture of copper. (*Communicated by Frédéric Le Clerc.*)	2662	16th Oct. 1865	William Clark.
Furnaces	2682	17th Oct. 1865	William Beardmore.
Improvements in the manufacture of inflammable gases and in their application to useful purposes. (*for smelting.*)	2719	21st Oct. 1865	Isham Baggs.
An improved apparatus for calcining copper ore, and for treating the products of copper ore when being calcined.	2720	21st Oct. 1865	Arthur Bankart.
Improvements in lamps for the combustion of magnesium and in preparing magnesium for burning.	2786	28th Oct. 1865	Henry Larkin.
Furnaces	2803	31st Oct. 1865	Robert Cassels. Thomas Morton.
Improvements in the manufacture of iron and steel, and in apparatus employed in such manufactures.	2835	3rd Nov. 1865	Henry Bessemer.
Manufacture of copper from copper ore	2838	3rd Nov. 1865	James Balleny Elkington.
Plating or combining gold, platinum and other metals or their alloys. (*making alloys.*)	2842	3rd Nov. 1865	Edward John Northwood.
Manufacture of steel (*Communicated by Isidore Rosenthal and Ferdinand Gierow.*)	2870	7th Nov. 1865	Francis Prange.
Furnaces for heating the blast for blast furnaces	2897	10th Nov. 1865	Thomas Whitwell.
Making amalgams or alloys of metals (*Communicated by Henry Wurtz.*)	2903	11th Nov. 1865	William Edward Newton.
Purifying or refining iron	2929	14th Nov. 1865	John Dixon.
An improved process for hardening malleable and non-malleable cast iron. (*Communicated by Thomas Henry Jenkins.*)	2964	17th Nov. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Smelting*)—*continued.*			
Improvements in the manufacture of sulphur by the reduction of the sulphurous acid accruing from the roasting of sulphuretted ores, and in apparatus for the same.	2993	21st Nov. 1865	Alexandre Calley St. Paul de Sincay.
Furnaces - - - - - - - -	3025	25th Nov. 1865	William Alexander Lyttle.
Means and apparatus for raising heat by the combustion of fuels of various kinds.	3029	25th Nov. 1865	John Francis Bennett.
Making wrought iron - - - - - (*Communicated by Charles Meredith Dupuy.*)	3034	25th Nov. 1865	George Tomlinson Bousfield.
Improvements in the manufacture and treatment of railway bars, tyres and axles, also in the construction of furnaces, machinery and apparatus connected therewith. (*cementing or converting furnaces.*)	3064	1st Dec. 1865	Thomas Weatherburn Dodds.
Furnaces - - - - - - - -	3095	2nd Dec. 1865	Edward Brown Wilson.
Improvements in puddling, heating and other reverberatory furnaces used in the manufacture of iron and steel, and for other purposes.	3136	6th Dec. 1865	Thomas Lewis Nicklin.
Treatment of sulphurous and arsenical pyrites containing copper and tin.	3256	16th Dec. 1865	Charles Pengilly.
Certain improvements in the means of collecting waste gases arising from blast furnaces - -	3261	18th Dec. 1865	Samuel Whitehouse the elder. Samuel Whitehouse the younger. Jeremiah Whitehouse. William Whitehouse.
Improvements in smelting copper and in obtaining products from the gases and vapours given off during the said smelting.	3267	18th Dec. 1865	Henry Causer Ensell.
Certain improvements in the manufacture of steel -	3288	20th Dec. 1865	John Birch.
Improvements in the manufacture of steel and purified iron, and in the apparatus employed therein. (*Communicated by Antoine Galy-Cazalat.*)	3300	21st Dec. 1865	Henri Adrien Bonneville.
Improvements applicable to steam boilers, iron, steel, retort and other furnaces.	3338	26th Dec. 1865	Joshua Fisher.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters.	3344	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.
XI.—Casting and Moulding Metals; Moulds and Core Boxes.			
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	58	7th Jan. 1865	James Atkins.
A new or improved process or method of treating articles of cast iron, and of cast iron mixed with other metals.	192	23rd Jan. 1865	Perceval Moses Parsons.
Improvements in the manufacture of ordnance and other like castings and in the apparatus employed therein, also in carriages or moulds for the same. (*Communicated by William Jones.*)	295	2nd Feb. 1865	John Henry Johnson.
An improved mode of making metal pipes - -	356	8th Feb. 1865	William Anderson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Casting*)—*continued.*			
An improved "core" to be employed in the casting of metallic pipes or tubes.	587	2nd March 1865	David Hartley.
Casting steel railway wheel tyres - - -	614	4th March 1865	Joseph Whitley.
Manufacture of crucibles and pots in which metals or other substances may be melted.	630	6th March 1865	George Nimmo.
Improvements in the manufacture of railway wheel tyres, and in the implements or tools employed in such manufacture.	665	9th March 1865	William Daniel Allen.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles.	699	13th March 1865	James Atkins.
Casting ingots of steel and malleable iron - -	861	27th March 1865	Carl Johan Laurentz Leffler.
Manufacture of steel tires for railway wheels - -	878	28th March 1865	Francis William Webb.
Certain improvements in machinery or apparatus used in carding cotton or other fibrous substances - - - - - - -	887	29th March 1865	Evan Leigh. Frederick Allen Leigh.
Manufacture of plough-shares, socks or points for ploughs, cultivators or scurrifurrows, and other implements used in the cultivation of the land where these points are used or required - -	996	7th April 1865	William Gray. Edward Gray. John Gray.
Manufacture of malleable iron sheaves and bushes for pulley blocks - - - - -	1085	19th April 1865	Joseph Gardner. Richard Lee. George Henry Wain. Samuel Hargrove. Charles Hargrove. Samuel Hargrove, jun^{r}.
Casting and working so-called "Bessemer steel ingots" - - - - - - - -	1100	20th April 1865	Thomas Hampton. James Abbott.
Machinery for moulding and making cores for moulding or casting metals.	1122	21st April 1865	Richard Canham.
Making moulds for casting pipes and other articles of various sizes.	1206	1st May 1865	David Yoolow Stewart.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metals.	1208	1st May 1865	Henry Bessemer.
Certain improvements in the manufacture of "moulds" for metallic castings having a cylindrical form.	1295	10th May 1865	David Hartley.
Improvements in casting iron girders and in apparatus therefor.	1304	11th May 1865	James Goodwin.
Improvements in the manufacture of crossings for the permanent way of railways, and also in tyres for wheels.	1398	20th May 1865	Joseph Armstrong.
Apparatus for making cores and moulds for casting	1429	25th May 1865	David Law. James Bennet.
A new and improved mode of making and venting cores and parts of moulds, to be used in the casting of iron or other metal. (*Communicated by Joseph Harrison, jun^{r}.*)	1434	25th May 1865	John Henry Johnson.
An improved method of and apparatus for moulding wheels.	1488	30th May 1865	Luke Martin.
Foundry cupolas - - - - - -	1498	31st May 1865	Thomas Summerson.
An improved system of wheels for railway carriages	1663	20th June 1865	Emile Dupont.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Casting*)—*continued.*			
Manufacturing gun barrels and tubes of cast steel and homogeneous iron.	1738	30th June 1865	Henry Powell Tipper.
An improvement or improvements in the manufacture of the handles of smoothing irons or sad irons, which said improvement or improvements may also be applied to the manufacture of the handles of various other articles. (*moulding.*)	1798	7th July 1865	Thomas Sheldon.
Manufacture of cast steel - - - - (*Communicated by Charles Pauwert.*)	1813	8th July 1865	Richard Archibald Brooman.
An improved process for obtaining oxygen - - (*used in preparing moulds for casting.*) (*Communicated by Monsieur Charles Tellier.*)	1833	11th July 1865	Hector Auguste Dufrené.
Apparatus employed in the manufacture of tin and terne plates - - - - - -	1843	12th July 1865	John Saunders. Joseph Piper.
Improvements in ingot moulds and in casting metals.	1849	14th July 1865	John Clayton.
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings.	1885	19th July 1865	George Nimmo.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein.	1975	31st July 1865	John Ramsbottom.
Burglarproof safes - - - - - -	2006	2nd Aug. 1865	Herbert Allman.
Railway chairs - - - - - -	2099	14th Aug. 1865	William Frederick Henson.
Moulds for casting metallic pipes, retorts and other articles.	2215	29th Aug. 1865	George Robinson.
Manufacture of cast steel or other metallic tubes -	2241	31st Aug. 1865	William Henry Brown.
Improvements in the manufacture of metallic safes and strong rooms, and in apparatus connected therewith.	2285	2nd Sept. 1865	Samuel Chatwood.
Improvements in founding or casting metals, and in moulds used for the same.	2401	20th Sept. 1865	Daniel Spink.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, jun'. and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Apparatus for raising liquids - - -	2632	12th Oct. 1865	Jean Ursin Bastier.
Apparatus for moulding toothed or other wheels or pullies or portions of circles, for casting.	2751	25th Oct. 1865	George Lamb Scott.
Certain improvements in apparatus employed in the manufacture and production of metallic pipes, tubes or other similar hollow castings. (*moulds and cores.*) (*Communicated by Alfred Bertsch.*)	2804	31st Oct. 1865	Arthur Deslandes.
Casting hoops of steel suitable for making tyres -	2886	8th Nov. 1865	William Daniel Allen.
Stoves for drying moulds - - - -	2943	15th Nov. 1865	Henry Cochrane.
Machinery for the manufacture of moulds for casting metallic wheels.	2959	17th Nov. 1865	Thomas Joseph Perry.
An improvement in the manufacture of steel castings - - - - - -	2970	18th Nov. 1865	George Taylor. John Fernie.
Cotton gins - - - - -	2984	20th Nov. 1865	William James Burgess.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Casting*)—*continued.*			
Improvements in casting iron and steel and in apparatus employed for this purpose.	3018	24th Nov. 1865	Joseph Whitworth.
Moulding for casting steel, iron and other metals -	3030	25th Nov. 1865	Frederick Trachsel. William Hall.
Improvements in the manufacture of safes and in apparatus connected therewith.	3321	23rd Dec. 1865	Samuel Chatwood.
Improvements in the construction and manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles.	3332	23rd Dec. 1865	Francis William Webb.
III.—Forging, Rolling, Hammering, Rivetting, Bending, Welding and Shaping Metals; Steam Hammers, Anvils.			
Improvements in steam hammers and in apparatus employed in combination with steam hammers.	89	11th Jan. 1865	John Ramsbottom.
Improvements in driving rolls for rolling metals, and in apparatus employed therein. (*Communicated by Antoine François Marrel.*)	135	16th Jan. 1865	Richard Archibald Brooman.
Improvements in the permanent way of railways and in buckled plates to be used therein, the same being applicable to the construction of fire-proof buildings, bridges and other like structures, also in the machinery or apparatus for producing such improved plates.	164	19th Jan. 1865	Robert Mallet.
Improvements in shaping and forging metals and in the machinery and apparatus employed therein - - - - - - -	165	19th Jan. 1865	James Alfred Shipton. Robert Mitchell.
Manufacturing ordnance and gun barrels of cast steel or of homogeneous iron - -	213	25th Jan. 1865	John Marshall. Henry Mills.
Improvements in armour plated ships, forts, gun carriages and works of defence, and in fastenings to be employed therein.	292	2nd Feb. 1865	Charles Lungley.
Improvements in the manufacture of ordnance and other like castings and in the apparatus employed therein, also in carriages or moulds for the same. (*Communicated by William Jones.*)	295	2nd Feb. 1865	John Henry Johnson.
Machinery or apparatus for forming certain parts of metallic casks and drums.	327	6th Feb. 1865	George Duncan.
Manufacture of scissors, shears and edge tools - (*Partly communicated by Charles Lingard, junior.*)	373	10th Feb. 1865	Charles Lingard.
Machinery for rolling and hammering iron and other metals.	375	10th Feb. 1865	John Ramsbottom.
Machinery for rivetting and for making rivets -	400	13th Feb. 1865	Henry Martyn Kennard.
Mode of making or forming the links of iron or steel chains, chain cables, shackles, couplings or parts of the same, and for machinery to be used therein.	422	14th Feb. 1865	George Homfray.
An improved blowing apparatus - - - (*for smiths' hearths.*)	427	15th Feb. 1865	Samuel Richards Freeman. Abraham Grundy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging*)—*continued.*			
Improvements in cast steel or other metal chains for cables and for other purposes, and in machinery or apparatus for manufacturing the same.	431	15th Feb. 1865	William Henry Brown.
Permanent way and rolling stock of railways - (*rolling rails in halves.*)	520	24th Feb. 1865	John Kennedy Donald.
Making solid iron scales with bolsters, for all kinds of spring knives.	560	28th Feb. 1865	Arthur Davy.
Improvements in steam hammers applicable to the manufacture of files, to welding flyers of cotton machinery and to other purposes.	641	7th March 1865	James Dodge.
An improved manufacture of iron forgings -	654	8th March 1865	William Clay.
Improvements in the manufacture of railway wheel tyres, and in the implements or tools employed in such manufacture.	665	9th March 1865	William Daniel Allen.
Machinery or apparatus for rolling, shaping or forging metals.	701	13th March 1865	Robert Marsden.
Machinery for rolling and shaping metals - -	736	16th March 1865	John Ramsbottom.
Apparatus for blowing smiths' and other fires -	755	18th March 1865	James Cookson. Philip Billington.
Machinery for cutting, punching, raising, shaping or drawing through sheet metal, by means of tools and dies.	795	22nd March 1865	George Farmer.
Manufacture of steel tires for railway wheels - -	878	28th March 1865	Francis William Webb.
Forging machines - - - - - -	882	28th March 1865	Joseph Wright.
Shaping machines - - - - - -	896	30th March 1865	Walter Montgomerie Neilson.
Improvements in the manufacture of iron rods and bars of different forms, and in the apparatus relating thereto. (*Communicated by Adolphe Paul Englebienne, Philippe Gobert and Constant Pourbaix.*)	912	31st March 1865	Henri Adrien Bonneville.
Rolling or forging steel or wrought iron in bars, to be used as beaters or beating bars upon the drum cylinders or breast plates of concaves in thrashing machines.	925	1st April 1865	William Gray.
Improvements in steam and atmospheric hammers and presses, which improvements are also applicable to steam-engines.	953	4th April 1865	Joseph Vaughan.
Mode of making or forming the links of iron or steel chains and chain cables, and for machinery to be used therein.	1004	8th April 1865	Alfred Homfray.
An improved method of forming tapered rods and bars. (*Communicated by Oscar Auguste Decrets.*)	1018	10th April 1865	Richard Archibald Brooman.
Manufacture of iron and steel - - -	1033	11th April 1865	Charles Vaughan.
Certain improvements in the manufacture of hoop or narrow strip iron.	1063	13th April 1865	Thomas Bennett.
Cushions for steam cylinders - - - (*Communicated by Henry Johnson.*)	1079	18th April 1865	Frederick Collier Bakewell.
An improved machine for straightening, bending, curving and circling beams, bars and plates of iron or other metals.	1082	18th April 1865	John Todd.
Construction of the permanent way of railways - (*Communicated by Messrs. Ho...*)	1131	22nd April 1865	William Bünger.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging*)—*continued.*			
Certain improvements in machinery or apparatus for rolling or shaping metallic articles of irregular form, such as "file blanks" and similar articles.	1190	28th April 1865	Edward McNally.
Machinery for drilling boiler and other plates of metal, and for rivetting them together.	1291	10th May 1865	Daniel Adamson.
Machinery or apparatus for tapering, pointing or reducing wires or rods for spindles, hatchel teeth, pins for dresses, and similar articles.	1363	16th May 1865	Chauncey Orrin Crosby.
An improvement in atmospheric forging hammers -	1380	19th May 1865	Edward Augustus Raymond.
Production and application of electricity - - (*for rolling and welding metals.*)	1412	23rd May 1865	Henry Wilde.
Machinery employed in the manufacture of hoops and tyres. (*rolls.*)	1425	25th May 1865	John Ramsbottom.
Manufacture of cast steel railway tires - - -	1426	25th May 1865	John Firth.
Improvements in making cast-steel railway tires, and in apparatus therefor.	1455	27th May 1865	John Martin Rowan.
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkington.
Certain improvements in the manufacture of iron and steel, and in apparatus connected therewith.	1506	1st June 1865	Herbert Allman.
Furnaces used in the manufacture of welded iron tubes.	1517	2nd June 1865	Thomas Pritchard.
Machinery or apparatus for bending and straightening angle iron, T iron and other iron bars.	1532	5th June 1865	Charles De Bergue.
Hammers and other machines actuated by steam or other fluid or vapour - - - - -	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Improvements in the manufacture or shaping of iron intended for the shoes of horses and other animals, and in machinery employed therein. (*Communicated by Hector Edouard Bastien.*)	1629	16th June 1865	Richard Archibald Brooman.
Machinery for rivetting and for making rivets -	1709	27th June 1865	Henry Martyn Kennard.
Heating chisels, knives, plane irons, gouges, augers, steels, shears, scythes and saws.	1715	27th June 1865	William Brooks.
Machinery or apparatus for cutting, punching and bending sheet metal. (*Communicated by Nathan Harper.*)	1728	29th June 1865	Robert Henry Leese.
Manufacturing gun barrels and tubes of cast steel and homogeneous iron.	1738	30th June 1865	Henry Powell Tipper.
Making skelps for iron or steel tubes direct from the rolls, and for machinery to be used in the same.	1858	15th July 1865	Samuel Hingley.
Manufacture of iron and steel - - - (*rolling.*) (*Communicated by Martin Dieudonné Henvaux.*)	1964	29th July 1865	Ephraim Sabel.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein. (*expanding.*)	1975	31st July 1865	John Ramsbottom.
Manufacture of iron rails and girders - - - (*Communicated by Martin Dieudonné Henvaux.*)	1976	31st July 1865	Ephraim Sabel.
Iron knees and riders for ships' fastenings, and iron frames for wood and iron ships.	2010	3rd Aug. 1865	Peter Cato.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging*)—*continued.*			
Machinery to be used in the manufacture of plate or sheet iron and steel. (*Communicated by Martin Dieudonné Henvaux.*)	2012	3rd Aug. 1865	Ephraim Sabel.
Blacksmiths' bellows, more especially those used in portable forges.	2152	21st Aug. 1865	John Bowden.
Steam hammers - - - - - -	2174	24th Aug. 1865	David Davies.
Improvements in the manufacture of horse shoes and in machinery used in the said manufacture.	2197	26th Aug. 1865	John Symmons.
Sheet metal handles for spoons, saucepans and other utensils for culinary purposes.	2228	30th Aug. 1865	James Fallows.
The manufacture of boiler and tea kettle bottoms, and every other description of die-struck hollow ware.	2237	31st Aug. 1865	Michael Judge.
Treating, working or manipulating cast steel, for the manufacture of wheel tires, armour plates or other articles requiring great hardness and tensile strength.	2277	5th Sept. 1865	Julien Grand.
Improvements in the manufacture of tubes for gun barrels and other purposes, parts of which improvements are also applicable to the manufacture of rods or bars, and to the rifling of ordnance and fire-arms.	2351	14th Sept. 1865	Gustavus Palmer Harding.
Machinery or apparatus for shaping metal articles - (*see* "NAILS.") (*Communicated by Robert Heapy Butcher.*)	2371	16th Sept. 1865	John Henry Johnson.
Improvements in the manufacture of horse shoes and in the machinery used for such manufacture. (*Communicated by Léon Chrysostôme Viel and Pierre Michel Sibut.*)	2433	23rd Sept. 1865	George Davies.
Improvements in the manufacture of sheet iron or steel cylinders for boilers and similar articles, and in the apparatus relating thereto. (*rolling apparatus.*) (*Communicated by Benôit Bouniard.*)	2529	3rd Oct. 1865	Henri Adrien Bonneville.
Machinery for shaping metal and other substances -	2552	5th Oct. 1865	Hesketh Hughes.
Bolts, rivets and the like fastenings, for connecting together pieces of metal and other material.	2618	11th Oct. 1865	Frederic Pelham Warren.
Manufacture of tyres for railway wheels - -	2654	14th Oct. 1865	William James Armitage. Fairfax Wooler. John Hodgson.
Improvements in wheels for common road carriages, in tyres for the same, and in machinery for bending the tyres.	2668	16th Oct. 1865	James Lamb Hancock.
Improvements in forging and swaging steel and iron wheel tyres, and in the apparatus or tools employed for that purpose.	2695	19th Oct. 1865	Josiah Penton.
Manufacture of ordnance whole or in parts - -	2725	30th Oct. 1865	William Deakin. John Bagnall Johnson.
Improvements in steam hammers and in means of applying them to the manufacture of boilers and tubes.	2805	31st Oct. 1865	Charles Emmet.
Improvements in forges and in apparatus for lubricating parts thereof, which apparatus is also applicable for lubricating other moving parts of machinery. (*Communicated by Claude Henri Turge, senior.*)	2878	8th Nov. 1865	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Forging*)—*continued.*			
Machinery for rolling shafts and axles (*Communicated by Thomas Cooper.*)	2904	11th Nov. 1865	Alfred Vincent Newton.
Crank axles of locomotives for railroads (*Communicated by Dyer Williams.*)	2908	11th Nov. 1865	William Robert Lake.
Manufacture of beaters for thrashing machines (*rolling the steel.*)	2992	21st Nov. 1865	William Gray. Edward Gray. John Gray.
An improved machine or apparatus for shaping and forging iron.	3027	25th Nov. 1865	John Arrowsmith.
Improvements in the manufacture and treatment of railway bars, tyres and axles, also in the construction of furnaces, machinery and apparatus connected therewith. (*hammering.*)	3084	1st Dec. 1865	Thomas Weatherburn Dodds.
Certain improvements in the construction of forge furnaces.	3109	4th Dec. 1865	William Beardmore.
Manufacture of metal tubes	3117	5th Dec. 1865	Philip Albert Muntz.
Machinery for rolling gun barrels and other articles.	3155	8th Dec. 1865	Thomas Claridge.
Certain improvements in the manufacture of tyres for railway wheels and in apparatus connected therewith.	3158	8th Dec. 1865	Richard Evan Price.
Improvements in the manufacture of metal tubes for gun barrels and other purposes, and in machinery or apparatus employed therein. (*rolling.*)	3289	20th Dec. 1865	Thomas Rickett.
Improvements in the manufacture of steel and purified iron, and in the apparatus employed therein. (*rolling.*) (*Communicated by Antoine Galy-Cazalat.*)	3300	21st Dec. 1865	Henri Adrien Bonneville.
Machinery for raising or forming articles of sheet metal. (*Communicated by Mellen Bray.*)	3319	22nd Dec. 1865	George Tomlinson Bousfield.
Improvements in the construction and manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles. (*casting anvil blocks.*)	3332	23rd Dec. 1865	Francis William Webb.
Improvements in the manufacture of axles for carriages and spindles for various purposes, and in machinery to be employed in the said manufacture, part of which improvements in machinery may also be applied to other purposes *See also* "NAILS."	3336	26th Dec. 1865	Elias Lones. Joseph Constant Lones. John Lones. John Brettell. Thomas Brettell. Charles Vernon.
IV.—Cutting, Planing, Punching, Boring and Rifling Metals.			
An improved apparatus for cutting iron gas or other pipes. (*Communicated by Jules Chartiez.*)	85	11th Jan. 1865	William Edward Gedge.
Improvements in certain sewing-machine shuttles, and in the mode of and tools for manufacturing the same.	163	19th Jan. 1865	George Francis Bradbury.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Cutting*)—*continued.*			
Improvements in fire-arms and in ammunition for the same. (*rifling barrels.*)	188	21st Jan. 1865	Jacob Snider, jun^{r}.
Improvements in preparing for fixing and in fixing plates or sheets of metal, such as are used for roofing and other similar purposes.	232	26th Jan. 1865	George Dibley.
Action and arrangement of drilling machines, turning lathes and other machine tools in which a variable speed is required.	241	27th Jan. 1865	John Combe.
Improvements in screw taps more especially designed for cutting threads in the fittings and connections for gas, steam and water pipes.	257	28th Jan. 1865	William Foster.
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks - -	399	13th Feb. 1865	David Barr. William Henry Page. James Clement Newey.
Mode of making or forming the links of iron or steel chains, chain cables, shackles, couplings or parts of the same, and for machinery to be used therein.	422	14th Feb. 1865	George Homfray.
Armour plates for vessels of war and for other similar purposes. (*grooving.*)	455	17th Feb. 1865	John Brown.
Apparatus for operating engineers' and carpenters' tools by hand or other power. (*for boring, planing, &c.*) (*Communicated by Henry Winsor.*)	600	3rd March 1865	James Spence.
Machinery or apparatus for cutting and shaping metals, making nails, rivets and similar articles	644	8th March 1865	Joseph Wadsworth. James Wadsworth.
Machinery for cutting, punching, raising, shaping or drawing through sheet metal, by means of tools and dies.	795	22nd March 1865	George Farmer.
Machinery or apparatus for cutting or chasing the threads of screws or worms.	835	24th March 1865	Joseph Green.
Machines for planing and shaping metals - -	856	27th March 1865	John Todd.
Machinery or apparatus for cutting scrolls, frets and filigree work.	926	1st April 1865	James Kennan.
Certain improvements in the manufacture of hoop or narrow strip iron.	1063	13th April 1865	Thomas Bennett.
Casting and working so-called "Bessemer steel ingots" - - - - - - -	1100	20th April 1865	Thomas Hampton. James Abbott.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
An improved cigar cutter - - - -	1139	24th April 1865	Henry Charles Butcher.
Machinery for cutting or shaping masts, spars and other beams and articles of wood.	1179	27th April 1865	Samuel Harvey.
Improvements in means or apparatus for fixing or tightening the ends of boiler and other tubes, and in cutting the ends or other parts of such tubes.	1282	9th May 1865	Ralph Hart Tweddell.
Machinery for drilling boiler and other plates of metal, and for rivetting them together.	1291	10th May 1865	Daniel Adamson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Cutting*)—*continued.*			
Improvements in power looms for weaving and in apparatus connected therewith. (*punching holes in metal cylinders.*)	1307	11th May 1865	William Jamieson.
Improved apparatus for cutting, turning and smoothing metal pipes, and the surfaces of bolts, rods or spindles - - - - -	1311	11th May 1865	George Mountford. Edward Worroll.
Improvements in the mode of rifling muzzle-loading cannon, and in projectiles for the same. (*Communicated by John Seipel.*)	1332	13th May 1865	William Spence.
Machinery for the manufacture of hinges - - (*punching the strips.*) (*Communicated by Jean Baptiste Evrard and Jean Pierre Boyer.*)	1335	13th May 1865	William Clark.
Certain improvements in the manufacture of gun barrels and ordnance - - - - -	1341	15th May 1865	William Deakin. John Bagnall Johnson.
Certain improvements in apparatus for cutting or forming screws, which is also applicable for cutting pipes or tubes.	1411	23rd May 1865	Edward McNally.
Machinery employed in the manufacture of hoops and tyres. (*making grooves on roughing rolls.*)	1425	25th May 1865	John Ramsbottom.
Improvements in making cast-steel railway tires, and in apparatus therefor.	1455	27th May 1865	John Martin Rowan.
Tube cutters and screw stocks - - -	1527	3rd June 1865	Charles Taylor.
Machinery or tools for cutting metals or other materials.	1571	9th June 1865	William Wilson Hulse.
Hammers and other machines actuated by steam or other fluid or vapour - - - - (*machines for cutting and punching.*)	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Portable punching apparatus - - -	1706	26th June 1865	John Medhurst.
Machinery or apparatus for cutting, punching and bending sheet metal. (*Communicated by Nathan Harper.*)	1728	29th June 1865	Robert Henry Leese.
Improvements in portable charge holders for breech-loading guns, whether single or double barrelled, as also in the means of manufacturing the said holders and in exploding the charge.	1888	20th July 1865	Charles Rosson.
Machinery for planing metals - - - (*Communicated by William Sellers.*)	1942	26th July 1865	William Edward Newton.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein. (*perforating discs.*)	1975	31st July 1865	John Ramsbottom.
Apparatus for cutting scales for knives and forming metal webs for knives.	1988	1st Aug. 1865	William Singleton.
A new portable machine or apparatus for the cutting of screw threads on pipes or on solid materials, and for the cutting of pipes asunder.	2055	8th Aug. 1865	Thomas Goode Messenger.
An improvement in the manufacture of metallic capsules.	2125	17th Aug. 1865	Eugene Rimmel.
Improvements in the manufacture of tubes for gun barrels and other purposes, parts of which improvements are also applicable to the manufacture of rods or bars, and to the rifling of ordnance and fire-arms.	2351	14th Sept. 1865	Gustavus Palmer Harding.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Cutting*)—*continued.*			
An improved form of rifling for fire-arms and ordnance.	2354	14th Sept. 1865	Wilmot Burrows Edward Ellis.
A new or improved method of and apparatus for securing or fastening metal plates to beams, rafters and other places, for roofing and other purposes.	2384	19th Sept. 1865	Robert Fox.
Improvements in the manufacture of horse-shoes and in the machinery used for such manufacture. (*Communicated by Léon Chrysostôme Viel and Pierre Michel Sibut.*)	2433	23rd Sept. 1865	George Davies.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for working punches, adjusting cutters, &c.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Improvements in rifling fire-arms, and in missiles or projectiles used in such, and in the machinery for the production of these improvements.	2488	28th Sept. 1865	William Ellis Metford.
Improvements in connections for and in stopping pipes used for conveying water and gas, and for other like purposes, and in preventing leakages in the said pipes, and in apparatus employed therein. (*and drilling.*)	2503	29th Sept. 1865	Charles Forster Cotterill.
Machinery for cutting screws - - -	2652	14th Oct. 1865	Joseph Tangye.
Manufacture of tyres for railway wheels - -	2654	14th Oct. 1865	William James Armitage. Fairfax Wooler. John Hodgson.
Machinery for the manufacture of fish hooks -	2673	17th Oct. 1865	Albert Fenton.
Reeds for weaving cocoa-nut, jute and other fibres - (*cut from metal.*)	2691	18th Oct. 1865	Thomas Catchpole.
Improvements in the manufacture of wheels for railway carriages, and in the machinery to be employed therein. (*drilling machines.*)	2771	27th Oct. 1865	Thomas Greenwood.
Manufacture of spikes - - - - -	2806	31st Oct. 1865	Moses Baylias.
Machinery for mortising, tenoning and boring hard or soft woods, and drilling iron.	2820	2nd Nov. 1865	James Curtis.
An improved bit for boring mortices in wood or other material.	2857	6th Nov. 1865	William Tighe Hamilton.
Fire-arms and projectiles - - - - - (*rifling barrels.*)	2902	11th Nov. 1865	Charles William Jones.
Machinery for cutting or shearing sheet iron and other metallic sheets or plates - - -	2989	21st Nov. 1865	Richard Walters. Thomas Edwin Meese Walters.
Manufacture of beaters for thrashing machines - (*fluting or grooving.*)	2992	21st Nov. 1865	William Gray. Edward Gray. John Gray.
A combined adjustable spanner, tube cutter and pipe wrench. (*Communicated by Henry Hitchings Baragwanath and Martin Van Wisker.*)	3036	27th Nov. 1865	John Phillips Baragwanath.
Improved machinery for manufacturing sewing-machine needles - - - - - - (*cutting and grooving wire.*) (*Partly communicated by Joseph Thorne.*)	3143	6th Dec. 1865	Nahum Salamon. William John Lawrence Davids.
An improved screwing and tapping machine -	3166	9th Dec. 1865	Emile Watteeu.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Cutting*)—*continued.*			
Improvements in the furniture of door locks and latches, and in the means used in applying the same. (*apparatus for cutting holes.*)	3290	20th Dec. 1865	John Martin.
Improvements in the construction and manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles. (*casting punch blocks.*)	3332	23rd Dec. 1865	Francis William Webb.
Machinery for boring, turning and shaping articles of metal - - - - - - -	3362	29th Dec. 1865	William Harrison. Thomas Walker.
V.—Plating and Coating Metallic Surfaces with Metal; Finishing and Ornamenting Metallic Surfaces.			
Improvements in shaping and forging metals, and in the machinery and apparatus employed therein - - - - - - - (*planishing and finishing.*)	165	19th Jan. 1865	James Alfred Shipton. Robert Mitchell.
Treating products obtained when coating iron with zinc.	469	18th Feb. 1865	James Graham.
Rolls for connecting sheets of zinc and other metals employed for covering roofs and other enclosures.	662	9th March 1865	Rowland George Fisher.
Improvements in the strengthening and ornamenting of collapsible or soft metal tubes.	667	9th March 1865	Edmund Leahy.
Locks for safes, strong rooms and other purposes -	778	20th March 1865	Samuel Chatwood.
Manufacture of tin and terne plates - - -	1081	18th April 1865	John Jones Jenkins.
Paints or compositions for coating and preserving metallic and other substances from oxidation and decay - - - - - -	1154	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
Improvements in finishing and polishing metal tubes and rods, and in apparatus or machinery to be employed therein.	1229	2nd May 1865	Thomas Allcock.
Certain improvements in the formation and construction of metallic vessels, chambers or hollow cylinders used in hydraulic apparatus, cannon or heavy guns, and for like purposes.	1505	1st June 1865	Herbert Allman.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*coating iron surfaces.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Improvements in the manufacture of certain kinds of metallic tubes and rods, and in ornamenting metallic tubes and rods.	1749	1st July 1865	James Atkins.
Apparatus employed in the manufacture of tin and terne plates - - - - - -	1843	12th July 1865	John Saunders. Joseph Piper.
Protecting crinoline steel, stay busks, springs for leggings or gaiters, and other similar fastenings.	1883	19th July 1865	William Edwards.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Plating*)—*continued.*			
Manufacture of pots and crucibles wherein metals and other materials may be heated or melted.	1884	19th July 1865	George Nimmo.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mulholland.
Construction of submarine telegraph cables -	2088	11th Aug. 1865	Henry Robert Guy.
Manufacturing wire conductors for electro-telegraphic purposes.	2416	22nd Sept. 1865	William Boggett.
An improved liquid composition for cleansing, scouring and bleaching textile animal, mineral and vegetable substances - - - (*cleansing metal.*)	2440	23rd Sept. 1865	Gustave Emile Rolland. Emile Léon Rolland.
Preparation of iron, steel and alloyed metals, for electro-plating.	2521	2nd Oct. 1865	Thomas Allan.
Coating iron and steel with gold, silver, platinum or copper.	2592	7th Oct. 1865	Jacob Baynes Thompson.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, junior, and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Improvements in the construction and working of electric telegraphs, and in apparatus connected therewith, partly applicable to other purposes. (*electro-deposition of metals.*)	2762	26th Oct. 1865	Henry Wilde.
Plating or combining gold, platinum and other metals or their alloys.	2842	3rd Nov. 1865	Edward John Northwood.
Making amalgams or alloys of metals - - (*coating metals with fused metals.*) (*Communicated by Henry Wurtz.*)	2903	11th Nov. 1865	William Edward Newton.
Improvements in the construction of and in the method of laying submarine electric cables. (*coating copper wire with gold.*)	2948	16th Nov. 1865	John De La Haye.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*covering and lining mixing chambers.*) (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Construction of wire conductors for electro-telegraphic purposes.	3180	9th Dec. 1865	William Boggett.
Improvements in coating metals and in apparatus to be used for this purpose. (*and finishing.*)	3183	9th Dec. 1865	Edmund Morewood.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other material.	3243	14th Dec. 1865	William Robinson.
A new process of lacquering and finishing metal goods, such as gas fittings, and other like articles usually finished by bronzing and lacquering.	3264	18th Dec. 1865	Joseph Harcourt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Plating*)—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*a gold lacquer for imitation gilding.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Improvements in breech-loading fire-arms, and in cartridges for the same. (*coating metallic cartridge cases with tin.*)	3348	27th Dec. 1865	William Castle Dodge.
METERS FOR GAS AND FLUIDS.			
Means or apparatus for measuring water or other liquids.	20	4th Jan. 1865	Walter Payton.
Apparatus for supplying regulated or measured quantities of water and other fluids.	707	13th March 1865	Robert Gordon Rattray.
Improvements in gas-meters and in the machinery or apparatus connected therewith.	917	31st March 1865	James Bathgate.
Wet gas-meters - - - - - -	1072	17th April 1865	Thomas Newbigging. Alexander Hindle.
Improvements in means or apparatus for measuring the flow or passage of liquids, which improvements are also applicable in obtaining motive-power.	1150	25th April 1865	Thomas Walker.
Apparatus for measuring spirits - - - (*Communicated by John Hutchings Cox, John Murphy and William Murphy.*)	1272	8th May 1865	John Henry Johnson.
Wet gas-meters - - - - - -	1296	10th May 1865	Edward Myers.
Dry gas-meters - - - - - -	1370	18th May 1865	William Richard Williams.
Wet gas-meters - - - - - -	1395	20th May 1865	William Smith. George Browne Smith.
Apparatus for measuring gas and other fluids - (*Communicated by Jean Theodore Scholte.*)	1458	27th May 1865	Richard Archibald Brooman.
A new or improved machine for obtaining motive-power and other useful purposes. (*a water meter.*)	1468	29th May 1865	Henry Moseley.
Dry gas-meters - - - - - -	1548	6th June 1865	Henry Hermann Kromschroeder. John Frederick Gustav Kromschroeder.
Apparatus for measuring fluids - - - (*Communicated by Jean Babeaud.*)	1667	21st June 1865	Michael Henry.
Certain improvements in apparatus for measuring and indicating the flow of liquids.	1674	22nd June 1865	Edward Kenworthy Dutton.
Dry gas-meters - - - - - -	1732	29th June 1865	George Lizars.
An improved portable chamber or receptacle to contain aërated liquids, and the apparatus connected therewith, by which the flow of such liquid is regulated and measured.	1923	25th July 1865	Max Benjamin Schumann.
Fluid meters - - - - - - -	1940	26th July 1865	Samuel Lusty.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METERS, &c.—*continued.*			
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Apparatus for regulating the passage or flow of steam, water and other fluids.	2043	7th Aug. 1865	Adrienne Anastasie Foubert.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes.	2184	25th Aug. 1865	Edwin Augustus Curley.
An improved construction of spirit meter - - (*Communicated by Edward Payne.*)	2193	26th Aug. 1865	John Fulleck Hearsey.
Apparatus for supplying regulated or measured quantities of water.	2199	26th Aug. 1865	Robert Gordon Rattray.
Meters or apparatus for measuring water or other fluids, partly applicable for exhausting air or other gases.	2259	1st Sept. 1865	Charles Horsley.
Construction of gas-meters - - - - -	2372	16th Sept. 1865	William Eson.
Gas-meters - - - - - - -	2549	4th Oct. 1865	James Webster.
Arrangement and construction of wet gas-meters -	2893	10th Nov. 1865	Edward Myers.
Improvements in means or apparatus for measuring the passage or flow of liquids, for raising and forcing fluids, and for obtaining motive-power, also in means for the manufacture of parts of such apparatus.	2968	17th Nov. 1865	Walter Payton.
Apparatus for the production of hydrocarbon or other vapours, parts of which apparatus are also applicable to measuring gaseous or fluid matter.	2972	18th Nov. 1865	Frederick Wilkins.
MINING; BORING AND BLASTING ROCK; RAISING COALS, &c. FROM MINES; DRAINING, LIGHTING AND VENTILATING MINES; SINKING WELLS.			
Improvements in machinery used for condensing atmospheric air, and in machinery worked by compressed air, employed in getting coal, stone and minerals.	96	11th Jan. 1865	James Grafton Jones.
Improvements in the construction of shells and in the explosive powder and fuse to be used therewith and for other purposes. (*Communicated by a foreigner.*)	136	16th Jan. 1865	John Berkeley Cotter.
Apparatus for relieving wire ropes from strain when used in lifting and lowering weights.	262	30th Jan. 1865	John Gibson.
Improvements in the miner's safety lamp - -	353	8th Feb. 1865	Richard Clarke Thorp. Philip Young.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
Apparatus for giving alarms - - - - (*in mines.*)	392	11th Feb. 1865	Charles West.
Machinery for mining coal and other substances - (*Communicated by William Watson Grier and Robert H. Boyd.*)	558	28th Feb. 1865	George Lauder.
An improved mode of and apparatus for ascertaining and indicating the presence of explosive gases.	668	9th March 1865	George Frederick Ansell.
Machinery and apparatus for mining or working coal and other minerals - - - - -	737	16th March 1865	James Farrar. Edwin Booth.
An improved safety tackle for raising and lowering heavy weights. (*in mines.*)	937	3rd April 1865	Pierre Joseph Jamet.
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid. (*for getting coal.*)	982	6th April 1865	James Grafton Jones.
Improvements in apparatus for raising water and other fluids, and in raising and lowering such apparatus.	1191	28th April 1865	Julian Bernard.
Improvements in boring or excavating and blasting rocks and minerals and in the treatment of the tools employed therein.	1192	28th April 1865	Julian Bernard.
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Leatham.
Safety lamps - - - - - (*Communicated by Ferdinand Sack.*)	1274	8th May 1865	John Henry Johnson.
A new or improved spring apparatus to be applied to the bearings of the axles of pulleys or drums used in collieries - - - - -	1343	15th May 1865	George Elliot. Samuel Bailey Coxon.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Gunpowder for mining and war purposes - - (*Communicated by Gustav Adolph Neumeyer.*)	1636	17th June 1865	August Klein.
An improved fire-escape, applicable also to raising loads from mines and other purposes. (*Communicated by Xavier Philippart.*)	1666	21st June 1865	William Edward Gedge.
Improved machinery for boring rocks and hard substances.	1778	5th July 1865	George Low.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for purifying air in mines.*)	1780	6th July 1865	Hermann Beigel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor - *from mines, quarries, &c.*	1988	2nd Aug. 1865	James M'Ewan. William Neilson.
Well sinking tubes - - - - - *Communicated by Hiram John Messenger, Stephen Brewer and Byron Madge.*	2178	24th Aug. 1865	William Edward Newton.
Preparing charges *for* fire-arms and for blasting -	2288	2nd Sept. 1865	Constant Reichen.
Improved machinery *for* cutting stone - - *Communicated by George Jeffards Wardwell.*	2283	15th Sept. 1865	Alfred Vincent Newton.
Safety lamps *for* use in mines and other localities - *Communicated by André Jean Dienier.,*	2270	16th Sept. 1865	Henri Adrien Bonneville.
Safety apparatus *for* cages and hoists - -	2288	19th Sept. 1865	Jubal Charlton Broadbent.
Construction *of* skips *for* raising ballast, corn, coal, minerals and other matters in bulk.	2363	16th Oct. 1865	Charles Henry Murray.
Improvements in tools and apparatus employed in blasting, boring and cutting rock, stone and other hard substances, and in the means employed for making such tools.	2774	27th Oct. 1865	Julian Bernard.
Construction of mining picks - - - *(Communicated by The Incorporated Washoe Tool Company.)*	2798	30th Oct. 1865	William Edward Newton.
Improved machinery for cutting tunnels and sinking shafts - - - -	2940	15th Nov. 1865	Alexander Alison. Henry Hoskings.
Construction *of* pumps *for* raising water and other liquids. *for collieries.)*	2946	15th Nov. 1865	William Easton.
Lamps *for* burning petroleum, paraffin and other hydrocarbon liquids, without a glass chimney, in the roofs of railway carriages and other like places and positions.	3070	30th Nov. 1865	James Turner Hall.
Improvements in sinking and operating wells, and in the apparatus employed therein. *(Communicated by James Suggett.)*	3074	30th Nov. 1865	John Henry Johnson.
Machinery employed when getting coal and other minerals.	3127	5th Dec. 1865	George Edmund Donisthorpe.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - *(ventilating mining galleries.)*	3153	8th Dec. 1865	Pierron de Mondésir. Paul Lehaitre. Augustin Jullienne.
An improved apparatus for signalling between passengers, guards and engine drivers of railway trains, which said apparatus is applicable also for other purposes - - - *(for collieries.)*	3176	9th Dec. 1865	Robert Pickup. John Heald.
An improved blasting powder - - - *(Communicated by Bernhard August Schäffer and Christian Friedrich Budenberg.)*	3206	12th Dec. 1865	Arnold Budenberg.
Machinery for boring rock and other mineral - *(Communicated by Carl Sacks.)*	3218	13th Dec. 1865	Frederick Bernard Doring.
Construction of fire-places and furnaces - - *(for mines.)*	3247	15th Dec. 1865	George Warriner.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Mining, &c.—*continued.*			
An improved mode of and apparatus for purifying and deodorising impure air, whether in buildings, ships, mines or sewers, which improvement is also applicable for ventilating purposes - -	3287	20th Dec. 1865	Joseph John Harrison. Edward Harrison.
Machinery for cutting or getting slate, stone, coal and other substances - - -	3297	20th Dec. 1865	William Fothergill Cooke. George Hunter.
Pumps - - - - - - - (*for mining purposes.*)	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Brain.
Mixing, Mashing, Stirring, Agitating.			
Improvements in mashing machines and in apparatus connected therewith.	481	21st Feb. 1865	Robert Willison.
Improvements in refining sugar and in apparatus employed therein. (*Communicated by Alfred Guillon.*)	599	3rd March 1865	Richard Archibald Brooman.
Preparation of turpentines and varnishes - -	670	10th March 1865	Joseph Freeman. Edward Grace Freeman. Charles Henry Freeman.
Manufacture of yarn so as to render same applicable as a substitute for woollen yarn, for manufacturing into shawls and other textile fabrics.	774	20th March 1865	Isidor Philippsthal.
Manufacture of puddled iron bars and every description of malleable iron - -	777	20th March 1865	Robert Thompson Crawshay. Isaac Arriston Lewis.
Apparatus for obtaining light - - -	841	24th March 1865	Giacomo Felice Marchisio.
Improvements in the method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	997	7th April 1865	William Jackson.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding-engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
Improvements in brewing, distillation, the production of vinegar, and the extract of malt and other grain.	1263	5th May 1865	Solomon Bennett.
An improved method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	1287	9th May 1865	William Jackson.
Improvements in the manufacture of soap and in apparatus employed therein. (*agitating ingredients for making soap.*) (*Communicated by Jacob Beers Bennett and James Sidney Gibbs.*)	1540	5th June 1865	Richard Archibald Brooman.
Preparing and treating gunpowder - - -	1679	22nd June 1865	James Gale, jun^{r}.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MIXING, &c.—*continued.*			
An improved machine for the manufacture of aërated waters.	1774	5th July 1865	William Saunders Parfitt.
Manufacture of iron - - - - (*Communicated by John Williams and Josiah Copley.*)	1793	7th July 1865	James Marius Macrum.
Compositions similar to gunpowder, for blasting, for use in ordnance and fire-arms, and for other purposes. (*Communicated by Pedro Nisser.*)	1939	26th July 1865	Edward Spicer.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - - (*and shaking or stirring up.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Treatment of hydrocarbon or paraffin oils - -	2008	3rd Aug. 1865	John William Perkins.
Improvements in the manufacture of steel iron and metal suitable for bearings, and in apparatus for the same.	2175	24th Aug. 1865	William Colborne Cambridge.
Improved machinery for mixing or grinding ointment, paints, drugs and other substances.	2290	6th Sept. 1865	Thomas Charles Gibson.
Improvements in the machinery or apparatus and in the processes for the treatment and manufacture of sugar.	2385	19th Sept. 1865	John Fletcher.
Process of and machinery for preparing flax, hemp, jute, china grass and other analagous vegetable fibres for spinning. (*cutting and mixing.*)	2728	21st Oct. 1865	James Hill Dickson.
Improved machinery to be used in the manufacture of paper. (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Improvements in the treatment of grain and in the process of malting, and in the apparatus employed therein. (*agitating or stirring.*)	3067	1st Dec. 1865	William Rowland Taylor.
Dyeing, printing and other operations based on chemical reactions. (*mixing colours.*) (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*gas mixing chambers.*) (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Improvements in preparing compounds of xylodine or gun cotton, and in the apparatus employed.	3163	8th Dec. 1865	Alexander Parkes.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other materials.	3243	14th Dec. 1865	William Robinson.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters.	3244	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER MACHINES; OBTAINING MOTIVE-POWER.			
I.—Air, Gas and Wind Engines and Mills; Pneumatic Motive power.			
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - - - (*or gas-engines.*)	166	19th Jan. 1865	William Cleveland Hicks.
Obtaining motive-power - - - -	331	6th Feb. 1865	John Isaac Watts.
Beam engines - - - - - - -	468	18th Feb. 1865	James Grafton Jones.
Obtaining motive-power from aëriform fluids and from liquids.	501	22nd Feb. 1865	Matthew Piers Watt Boulton.
Machinery for obtaining motive-power from ammoniacal gas. (*Communicated by Joseph Flandrin.*)	611	4th March 1865	Richard Archibald Brooman.
Motive-power engines - - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Gas engines - - - - - - -	731	15th March 1865	Hugh Smith.
An elementary power engine or a new or improved compressed air engine, for imparting power and motion to all kinds of machinery.	818	23rd March 1865	Anthony Bernhard Baron Von Rathen.
Obtaining motive-power from aëriform fluids and from liquids.	827	23rd March 1865	Matthew Piers Watt Boulton.
Improvements in obtaining motive-power, parts of which improvements are applicable to the compressing of air and gases.	840	24th March 1865	Valentine Baker.
An improvement in engines worked by heated air or gases.	905	31st March 1865	John Pinchbeck.
Navigable balloons - - - - -	930	1st April 1865	Paul Haenlein.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid.	982	6th April 1865	James Grafton Jones.
Certain improvements in gas engines - - -	986	6th April 1865	Pierre Hugon.
Certain improvements in gas-ammoniacal engines -	1074	17th April 1865	Louis De St. Céran.
Machinery for obtaining motive-power - -	1301	10th May 1865	William Joseph Rice.
An improved metallic stuffing box - -	1555	7th June 1865	Victor Duterne.
Caloric or heated air engines - - - (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Means and apparatus for generating motive-power - (*Communicated by Jules Gros.*)	1656	20th June 1865	William Clark.
Obtaining motive-power - - - - (*Communicated by Monsieur Charles Tellier.*)	1832	11th July 1865	Hector Auguste Dufrené.
Certain improvements in the method of obtaining motive-power and in apparatus connected therewith.	1910	22nd July 1865	Edmund Perré.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Obtaining motive-power when heated air or aëriform fluid is employed.	1915	22nd July 1865	Matthew Piers Watt Boulton.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases for gas-engines.*)	1952	27th July 1865	Henry Sherwood.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Applying and utilising water power - - (*for working air-engines.*)	1967	29th July 1865	Valentine Baker.
Obtaining motive-power by heat - -	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Improvements in generating steam and in heating steam and aëriform fluids.	2051	7th Aug. 1865	Matthew Piers Watt Boulton.
Apparatus for obtaining and applying motive-power to various useful purposes - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Improved machinery or apparatus for obtaining motive-power by expansion of air. (*Communicated by Abraham Désiré Cherfils.*)	2600	9th Oct. 1865	William Edward Gedge.
Caloric or hot air engines - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*gas-engine.*) (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
Improvements in obtaining motive-power and in apparatus employed therein.	3016	24th Nov, 1865	Jules Wauthier.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Improvements in propellers for ships and vessels, parts of which are applicable to windmill sails and fan blowers - - - - - -	3295	20th Dec. 1865	Frederick Lamb Hancock. Charles Lamb Hancock.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for making mill sails.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Improvements in obtaining motive-power, and in apparatus employed therein. (*from ammonia.*) (*Communicated by Jean Frot.*)	3358	28th Dec. 1865	Richard Archibald Brooman.
See also "GOVERNORS."			
XI.—Steam-Engines. (*Stationary, Locomotive and Marine.*)			
Improvements in the manufacture of elastic packings for pistons, and in lubricating compositions therefor.	19	4th Jan. 1865	Edward Keirby.
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edward Wilson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Locomotive engines - - - - - (*Communicated by Auguste De Bergue.*)	48	6th Jan. 1865	Charles De Bergue.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - - (*Communicated by Philibert Vabe.*)	111	13th Jan. 1865	William Brookes.
Apparatus for transmitting and converting reciprocating motion into rotary motion, applicable to various useful purposes. (*locomotive engines.*)	145	17th Jan. 1865	William John Cunningham.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydrulic presses.	155	18th Jan. 1865	William Robert Foster.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - -	166	19th Jan. 1865	William Cleveland Hicks.
Locomotive and other steam-engines - -	167	19th Jan. 1865	Thomas Charles Durham.
Steam-engines - - - - -	183	21st Jan. 1865	Thomas Lester.
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.
Construction of steam-engines - - - (*Communicated by Pierre Jean Lacoste.*)	260	30th Jan. 1865	George Davies.
The application of hydro-electricity to steam for the purpose of increasing its expansion and power, and the machinery or apparatus connected therewith, and also the application of galvano or frictional electricity for the same purpose - - - - -	273	31st Jan. 1865	Joseph Fletcher. Daniel Hamer.
An improved construction of lubricating apparatus for steam-engine purposes - - -	274	31st Jan. 1865	Ewing Pye Colquhoun. John Pardoe Ferris.
Steam-engines - - - - -	338	7th Feb. 1865	Charles Lungley.
Expansion gear for steam-engines - -	415	14th Feb. 1865	William Fothergill Batho.
Beam engines - - - - -	468	18th Feb. 1865	James Grafton Jones.
Steam-engines - - - - -	485	21st Feb. 1865	John Russell Swann.
A new and improved balanced slide valve - - (*Communicated by James Rankin.*)	496	22nd Feb. 1865	William Edward Newton.
Steam-engines applicable to ploughing and other agricultural purposes.	522	24th Feb. 1865	James Howard.
Marine steam-engines - - - -	643	8th March 1865	John Dean.
Motive-power engines - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Increasing the mechanical value of steam as a motive agent. (*Communicated by Thomas Ewbank.*)	748	17th March 1865	Benjamin Lawrence.
Improved combinations of direct acting steam-engines with single or double acting pumps, for pumping water, air or gases.	751	17th March 1865	Jacob Goodfellow.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Plating*)—*continued.*			
Manufacture of pots and crucibles wherein metals and other materials may be heated or melted.	1884	19th July 1865	George Nimmo.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mulholland.
Construction of submarine telegraph cables -	2088	11th Aug. 1865	Henry Robert Guy.
Manufacturing wire conductors for electro-telegraphic purposes.	2416	22nd Sept. 1865	William Boggett.
An improved liquid composition for cleansing, scouring and bleaching textile animal, mineral and vegetable substances - - - (*cleansing metal.*)	2440	23rd Sept. 1865	Gustave Emile Rolland. Emile Léon Rolland.
Preparation of iron, steel and alloyed metals, for electro-plating.	2521	2nd Oct. 1865	Thomas Allan.
Coating iron and steel with gold, silver, platinum or copper.	2592	7th Oct. 1865	Jacob Baynes Thompson.
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, junior, and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Improvements in the construction and working of electric telegraphs, and in apparatus connected therewith, partly applicable to other purposes. (*electro-deposition of metals.*)	2762	26th Oct. 1865	Henry Wilde.
Plating or combining gold, platinum and other metals or their alloys.	2842	3rd Nov. 1865	Edward John Northwood.
Making amalgams or alloys of metals - - (*coating metals with fused metals.*) (*Communicated by Henry Wurtz.*)	2903	11th Nov. 1865	William Edward Newton.
Improvements in the construction of and in the method of laying submarine electric cables. (*coating copper wire with gold.*)	2948	16th Nov. 1865	John De La Haye.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*covering and lining mixing chambers.*) (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Construction of wire conductors for electro-telegraphic purposes.	3180	9th Dec. 1865	William Boggett.
Improvements in coating metals and in apparatus to be used for this purpose. (*and finishing.*)	3183	9th Dec. 1865	Edmund Morewood.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other material.	3243	14th Dec. 1865	William Robinson.
A new process of lacquering and finishing metal goods, such as gas fittings, and other like articles usually finished by bronzing and lacquering.	3264	18th Dec. 1865	Joseph Harcourt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METALS (*Plating*)—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*a gold lacquer for imitation gilding.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Improvements in breech-loading fire-arms, and in cartridges for the same. (*coating metallic cartridge cases with tin.*)	3348	27th Dec. 1865	William Castle Dodge.
METERS FOR GAS AND FLUIDS.			
Means or apparatus for measuring water or other liquids.	20	4th Jan. 1865	Walter Payton.
Apparatus for supplying regulated or measured quantities of water and other fluids.	707	13th March 1865	Robert Gordon Rattray.
Improvements in gas-meters and in the machinery or apparatus connected therewith.	917	31st March 1865	James Bathgate.
Wet gas-meters - - - - -	1072	17th April 1865	Thomas Newbigging. Alexander Hindle.
Improvements in means or apparatus for measuring the flow or passage of liquids, which improvements are also applicable in obtaining motive-power.	1150	25th April 1865	Thomas Walker.
Apparatus for measuring spirits - - - (*Communicated by John Hutchings Cox, John Murphy and William Murphy.*)	1272	8th May 1865	John Henry Johnson.
Wet gas-meters - - - - -	1296	10th May 1865	Edward Myers.
Dry gas-meters - - - - -	1370	18th May 1865	William Richard Williams.
Wet gas-meters - - - - -	1395	20th May 1865	William Smith. George Browne Smith.
Apparatus for measuring gas and other fluids - (*Communicated by Jean Theodore Scholte.*)	1458	27th May 1865	Richard Archibald Brooman.
A new or improved machine for obtaining motive-power and other useful purposes. (*a water meter.*)	1468	29th May 1865	Henry Moseley.
Dry gas-meters - - - - -	1548	6th June 1865	Henry Hermann Kromschroeder. John Frederick Gustav Kromschroeder.
Apparatus for measuring fluids - - - (*Communicated by Jean Babeaud.*)	1667	21st June 1865	Michael Henry.
Certain improvements in apparatus for measuring and indicating the flow of liquids.	1674	22nd June 1865	Edward Kenworthy Dutton.
Dry gas-meters - - - - -	1732	29th June 1865	George Lizars.
An improved portable chamber or receptacle to contain aërated liquids, and the apparatus connected therewith, by which the flow of such liquid is regulated and measured.	1923	25th July 1865	Max Benjamin Schumann.
Fluid meters - - - - - -	1940	26th July 1865	Samuel Lusty.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
METERS, &c.—*continued.*			
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Apparatus for regulating the passage or flow of steam, water and other fluids.	2043	7th Aug. 1865	Adrienne Anastasie Foubert.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes.	2184	25th Aug. 1865	Edwin Augustus Curley.
An improved construction of spirit meter - - (*Communicated by Edward Payne.*)	2193	26th Aug. 1865	John Fulleck Hearsey.
Apparatus for supplying regulated or measured quantities of water.	2199	26th Aug. 1865	Robert Gordon Rattray.
Meters or apparatus for measuring water or other fluids, partly applicable for exhausting air or other gases.	2259	1st Sept. 1865	Charles Horsley.
Construction of gas-meters - - - - -	2372	16th Sept. 1865	William Esson.
Gas-meters - - - - - - -	2549	4th Oct. 1865	James Webster.
Arrangement and construction of wet gas-meters -	2893	10th Nov. 1865	Edward Myers.
Improvements in means or apparatus for measuring the passage or flow of liquids, for raising and forcing fluids, and for obtaining motive-power, also in means for the manufacture of parts of such apparatus.	2968	17th Nov. 1865	Walter Payton.
Apparatus for the production of hydrocarbon or other vapours, parts of which apparatus are also applicable to measuring gaseous or fluid matter.	2972	18th Nov. 1865	Frederick Wilkins.
MINING; BORING AND BLASTING ROCK; RAISING COALS, &c. FROM MINES; DRAINING, LIGHTING AND VENTILATING MINES; SINKING WELLS.			
Improvements in machinery used for condensing atmospheric air, and in machinery worked by compressed air, employed in getting coal, stone and minerals.	96	11th Jan. 1865	James Grafton Jones.
Improvements in the construction of shells, and in the explosive powder and fuse to be used therewith and for other purposes. (*mining and blasting powder.*)	136	16th Jan. 1865	John Berkeley Cotter.
Apparatus for relieving wire ropes from strain when used in lifting and lowering weights.	262	30th Jan. 1865	John Gibson.
Improvements in the miner's safety lamp - -	353	8th Feb. 1865	Richard Clarke Thorp. Philip Young.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
Apparatus for giving alarms - - - - (*in mines.*)	392	11th Feb. 1865	Charles West.
Machinery for mining coal and other substances - (*Communicated by William Watson Grier and Robert H. Boyd.*)	558	28th Feb. 1865	George Lauder.
An improved mode of and apparatus for ascertaining and indicating the presence of explosive gases.	668	9th March 1865	George Frederick Ansell.
Machinery and apparatus for mining or working coal and other minerals - - - - -	737	16th March 1865	James Farrar. Edwin Booth.
An improved safety tackle for raising and lowering heavy weights. (*in mines.*)	937	3rd April 1865	Pierre Joseph Jamet.
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid. (*for getting coal.*)	982	6th April 1865	James Grafton Jones.
Improvements in apparatus for raising water and other fluids, and in raising and lowering such apparatus.	1191	28th April 1865	Julian Bernard.
Improvements in boring or excavating and blasting rocks and minerals and in the treatment of the tools employed therein.	1192	28th April 1865	Julian Bernard.
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Leatham.
Safety lamps - - - - - (*Communicated by Ferdinand Sack.*)	1274	8th May 1865	John Henry Johnson.
A new or improved spring apparatus to be applied to the bearings of the axles of pulleys or drums used in collieries - - - -	1343	15th May 1865	George Elliot. Samuel Bailey Coxon.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Gunpowder for mining and war purposes - - (*Communicated by Gustav Adolph Neumeyer.*)	1636	17th June 1865	August Klein.
An improved fire-escape, applicable also to raising loads from mines and other purposes. (*Communicated by Xavier Philippart.*)	1666	21st June 1865	William Edward Gedge.
Improved machinery for boring rocks and hard substances.	1778	5th July 1865	George Low.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for purifying air in mines.*)	1780	6th July 1865	Hermann Beigel.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor (*from mines, quarries, &c.*)	1996	2nd Aug. 1865	James McEwan. William Neilson.
Well sinking tubes (*Communicated by Hiram John Messenger, Stephen Brewer and Byron Mudge.*)	2178	24th Aug. 1865	William Edward Newton.
Preparing charges for fire-arms and for blasting	2266	2nd Sept. 1865	Constant Reichen.
Improved machinery for cutting stone (*Communicated by George Jeffards Wardwell.*)	2363	15th Sept. 1865	Alfred Vincent Newton.
Safety lamps for use in mines and other localities (*Communicated by André Jean Olanier.*)	2370	16th Sept. 1865	Henri Adrien Bonneville.
Safety apparatus for cages and hoists	2383	19th Sept. 1865	Jubal Charlton Broadbent.
Construction of skips for raising ballast, corn, coal, minerals and other matters in bulk.	2663	16th Oct. 1865	Charles Henry Murray.
Improvements in tools and apparatus employed in blasting, boring and cutting rock, stone and other hard substances, and in the means employed for making such tools.	2774	27th Oct. 1865	Julian Bernard.
Construction of mining picks (*Communicated by The Incorporated Washoe Tool Company.*)	2796	30th Oct. 1865	William Edward Newton.
Improved machinery for cutting tunnels and sinking shafts	2940	15th Nov. 1865	Alexander Alison. Henry Hoskings.
Construction of pumps for raising water and other liquids. (*for collieries.*)	2946	15th Nov. 1865	William Easton.
Lamps for burning petroleum, paraffin and other hydrocarbon liquids, without a glass chimney, in the roofs of railway carriages and other like places and positions.	3070	30th Nov. 1865	James Turner Hall.
Improvements in sinking and operating wells, and in the apparatus employed therein. (*Communicated by James Suggett.*)	3074	30th Nov. 1865	John Henry Johnson.
Machinery employed when getting coal and other minerals.	3127	5th Dec. 1865	George Edmund Donisthorpe.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes (*ventilating mining galleries.*)	3153	8th Dec. 1865	Pierron de Mondésir. Paul Lehaitre. Augustin Jullienne.
An improved apparatus for signalling between passengers, guards and engine drivers of railway trains, which said apparatus is applicable also for other purposes (*for collieries.*)	3176	9th Dec. 1865	Robert Pickup. John Heald.
An improved blasting powder (*Communicated by Bernhard August Schäffer and Christian Friedrich Budenberg.*)	3206	12th Dec. 1865	Arnold Budenberg.
Machinery for boring rock and other mineral (*Communicated by Carl Sachs.*)	3218	13th Dec. 1865	Frederick Bernard Dorring.
Construction of fire-places and furnaces (*for mines.*)	3247	15th Dec. 1865	George Warriner.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MINING, &c.—*continued.*			
An improved mode of and apparatus for purifying and deodorising impure air, whether in buildings, ships, mines or sewers, which improvement is also applicable for ventilating purposes - -	3287	20th Dec. 1865	Joseph John Harrison. Edward Harrison.
Machinery for cutting or getting slate, stone, coal and other substances - - - -	3297	20th Dec. 1865	William Fothergill Cooke. George Hunter.
Pumps - - - - - - - - (*for mining purposes.*)	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Brain.
MIXING, MASHING, STIRRING, AGITATING.			
Improvements in mashing machines and in apparatus connected therewith.	481	21st Feb. 1865	Robert Willison.
Improvements in refining sugar and in apparatus employed therein. (*Communicated by Alfred Guillon.*)	599	3rd March 1865	Richard Archibald Brooman.
Preparation of turpentines and varnishes - -	670	10th March 1865	Joseph Freeman. Edward Grace Freeman. Charles Henry Freeman.
Manufacture of yarn so as to render same applicable as a substitute for woollen yarn, for manufacturing into shawls and other textile fabrics.	774	20th March 1865	Isidor Philippsthal.
Manufacture of puddled iron bars and every description of malleable iron - -	777	20th March 1865	Robert Thompson Crawshay. Isaac Arriston Lewis.
Apparatus for obtaining light - - -	841	24th March 1865	Giacomo Felice Marchisio.
Improvements in the method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	997	7th April 1865	William Jackson.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding-engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
Improvements in brewing, distillation, the production of vinegar, and the extract of malt and other grain.	1263	5th May 1865	Solomon Bennett.
An improved method of mixing gases and vapour, and in the machinery or apparatus connected therewith.	1287	9th May 1865	William Jackson.
Improvements in the manufacture of soap and in apparatus employed therein. (*agitating ingredients for making soap.*) (*Communicated by Jacob Beers Bennett and James Sidney Gibbs.*)	1540	5th June 1865	Richard Archibald Brooman.
Preparing and treating gunpowder - - -	1679	22nd June 1865	James Gale, jun^{r}.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MIXING, &c.— *continued.*			
An improved machine for the manufacture of aërated waters.	1774	5th July 1865	William Saunders Parfitt.
Manufacture of iron - - - - (*Communicated by John Williams and Josiah Copley.*)	1793	7th July 1865	James Marius Macrum.
Compositions similar to gunpowder, for blasting, for use in ordnance and fire-arms, and for other purposes. (*Communicated by Pedro Nisser.*)	1939	26th July 1865	Edward Spicer.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - - - (*and shaking or stirring up.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Treatment of hydrocarbon or paraffin oils - -	2008	3rd Aug. 1865	John William Perkins.
Improvements in the manufacture of steel iron and metal suitable for bearings, and in apparatus for the same.	2175	24th Aug. 1865	William Colborne Cambridge.
Improved machinery for mixing or grinding ointment, paints, drugs and other substances.	2290	6th Sept. 1865	Thomas Charles Gibson.
Improvements in the machinery or apparatus and in the processes for the treatment and manufacture of sugar.	2385	19th Sept. 1865	John Fletcher.
Process of and machinery for preparing flax, hemp, jute, china grass and other analagous vegetable fibres for spinning. (*cutting and mixing.*)	2728	21st Oct. 1865	James Hill Dickson.
Improved machinery to be used in the manufacture of paper. (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Improvements in the treatment of grain and in the process of malting, and in the apparatus employed therein. (*agitating or stirring.*)	3087	1st Dec. 1865	William Rowland Taylor.
Dyeing, printing and other operations based on chemical reactions. (*mixing colours.*) (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*gas mixing chambers.*) (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Improvements in preparing compounds of xylodine or gun cotton, and in the apparatus employed.	3163	8th Dec. 1865	Alexander Parkes.
Improvements in apparatus for mixing materials, which is also applicable for smoothing, finishing, rounding or polishing articles of metal or other materials.	3243	14th Dec. 1865	William Robinson.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters.	3344	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.

Subject-matter of Patent.

MOTIVE-POWER MACHINES; OBTAI MOTIVE-POWER.

I.—Air, Gas and Wind Engines and P Pneumatic Motive power.

Motive-power and means of communication b passengers while travelling, and appliance nected therewith.

Regulating and working the valves of stea other engines.

Steam-engines - - - -
(*or gas-engines.*)

Obtaining motive-power - -

Beam engines - - - -

Obtaining motive-power from aëriform flui from liquids.

Machinery for obtaining motive-power from niacal gas.
(*Communicated by Joseph Flandrin.*)

Motive-power engines - - -
(*Communicated by Auguste Gerin.*)

Gas engines - - - -

An elementary power engine or a new or in compressed air engine, for imparting po motion to all kinds of machinery.

Obtaining motive-power from aëriform flu from liquids.

Improvements in obtaining motive-power, which improvements are applicable to t pressing of air and gases.

An improvement in engines worked by he or gases.

Navigable balloons - - - -

Means or apparatus for obtaining motive-p the aid of steam, gas or other fluids.
(*Communicated by Joseph Perrigault Joseph Denis Farcot, Jean Joseph Leo Michel Basile Abel Farcot, Joseph Etie Château and Emmanuel Denis Farcot.*

Apparatus employed to actuate the valves o worked by steam, air or other fluid.

Certain improvements in gas engines -

Certain improvements in gas-ammoniacal

Machinery for obtaining motive-power

An improved metallic stuffing box -

Caloric or heated air engines -
(*Communicated by Cyrus W. Baldwin an Davis Richards.*)

Means and apparatus for generating motiv
(*Communicated by Jules Gros.*)

Obtaining motive-power - -
(*Communicated by Monsieur Charles T*

Certain improvements in the method of motive-power and in apparatus connect with.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Obtaining motive-power when heated air or aëriform fluid is employed.	1915	22nd July 1865	Matthew Piers Watt Boulton.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*gases for gas-engines.*)	1952	27th July 1865	Henry Sherwood.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Applying and utilising water power - - (*for working air-engines.*)	1967	29th July 1865	Valentine Baker.
Obtaining motive-power by heat - -	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Improvements in generating steam and in heating steam and aëriform fluids.	2051	7th Aug. 1865	Matthew Piers Watt Boulton.
Apparatus for obtaining and applying motive-power to various useful purposes - -	2060	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Improved machinery or apparatus for obtaining motive-power by expansion of air. (*Communicated by Abraham Désiré Cherfils.*)	2600	9th Oct. 1865	William Edward Gedge.
Caloric or hot air engines - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*gas-engine.*) (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
Improvements in obtaining motive-power and in apparatus employed therein.	3016	24th Nov, 1865	Jules Wauthier.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Improvements in propellers for ships and vessels, parts of which are applicable to windmill sails and fan blowers - - - - - -	3295	20th Dec. 1865	Frederick Lamb Hancock. Charles Lamb Hancock.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for making mill sails.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Improvements in obtaining motive-power, and in apparatus employed therein. (*from ammonia.*) (*Communicated by Jean Frot.*)	3358	28th Dec. 1865	Richard Archibald Brooman.
See also "GOVERNORS."			
II.—Steam-Engines. (*Stationary, Locomotive and Marine.*)			
Improvements in the manufacture of elastic packings for pistons, and in lubricating compositions therefor.	19	4th Jan. 1865	Edward Keirby.
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edward Wilson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Locomotive engines - - - - (*Communicated by Auguste De Bergue.*)	48	6th Jan. 1865	Charles De Bergue.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - - (*Communicated by Philibert Vabe.*)	111	13th Jan. 1865	William Brookes.
Apparatus for transmitting and converting reciprocating motion into rotary motion, applicable to various useful purposes. (*locomotive engines.*)	145	17th Jan. 1865	William John Cunningham.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydrulic presses.	155	18th Jan. 1865	William Robert Foster.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - - -	166	19th Jan. 1865	William Cleveland Hicks.
Locomotive and other steam-engines - -	167	19th Jan. 1865	Thomas Charles Durham.
Steam-engines - - - - - -	183	21st Jan. 1865	Thomas Lester.
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.
Construction of steam-engines - - - (*Communicated by Pierre Jean Lacoste.*)	260	30th Jan. 1865	George Davies.
The application of hydro-electricity to steam for the purpose of increasing its expansion and power, and the machinery or apparatus connected therewith, and also the application of galvano or frictional electricity for the same purpose - - - - - -	273	31st Jan. 1865	Joseph Fletcher. Daniel Hamer.
An improved construction of lubricating apparatus for steam-engine purposes - - -	274	31st Jan. 1865	Ewing Pye Colquhoun. John Pardoe Ferris.
Steam-engines - - - - - -	338	7th Feb. 1865	Charles Lungley.
Expansion gear for steam-engines - -	415	14th Feb. 1865	William Fothergill Batho.
Beam engines - - - - - -	468	18th Feb. 1865	James Grafton Jones.
Steam-engines - - - - - -	485	21st Feb. 1865	John Russell Swann.
A new and improved balanced slide valve - - (*Communicated by James Rankin.*)	496	22nd Feb. 1865	William Edward Newton.
Steam-engines applicable to ploughing and other agricultural purposes.	522	24th Feb. 1865	James Howard.
Marine steam-engines - - - - -	643	8th March 1865	John Dean.
Motive-power engines - - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Increasing the mechanical value of steam as a motive agent. (*Communicated by Thomas Ewbank.*)	746	17th March 1865	Benjamin Lawrence.
Improved combinations of direct acting steam-engines with single or double acting pumps, for pumping water, air or gases.	751	17th March 1865	Jacob Goodfellow.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Double cylinder steam-engines - - -	860	27th March 1865	Joshua Rooke.
Traction engines - - - - - -	863	27th March 1865	John Bruckshaw. William Scott Underhill.
Improvements in the construction of locomotive engines and railway carriages, for facilitating their passage round curves - - - (*Communicated by George John Horner.*)	916	31st March 1865	George Robert Stephenson. George Henry Phipps.
Improvements in paddle wheels, parts of which are applicable to other purposes. (*to steam-engines.*)	935	3rd April 1865	William Cantrill Gollings.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
Improvements in steam and atmospheric hammers and presses, which improvements are also applicable to steam-engines.	953	4th April 1865	Joseph Vaughan.
Traction engines - - - - - -	962	5th April 1865	John Gay Newton Alleyne.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid.	982	6th April 1865	James Grafton Jones.
An improved application of steam power to locomotion on ordinary roads. (*Communicated by Alfred Taillendeau.*)	1002	8th April 1865	William Edward Gedge.
Improvements in steam-engines, relating to valve motions, governor and drain pipes - -	1195	29th April 1865	Andrew Wyllie. John M'Farlane Gray.
Marine steam-engines - - - - - -	1212	1st May 1865	Daniel Rankin.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Improvements in or applicable to marine condensing steam-engines.	1253	4th May 1865	Thomas Wood.
Steam-engines - - - - - - (*Communicated by Ebenezer Danford.*)	1264	6th May 1865	William Edward Newton.
Mode of and apparatus for obtaining and applying motive-power - - - - - -	1303	10th May 1865	Stanislas Pokutynski. Michel Mycielski.
Means and apparatus for effecting traction on railways and roads where traction is used - -	1323	12th May 1865	Richard Edward Donovan. Daniel O'Brien.
Locomotive engines - - - - -	1358	16th May 1865	Walter Montgomerie.
A new system of rotative machines to be used as steam-engines and water pumps.	1447	26th May 1865	Jean Alphonse Heinrich.
A new or improved machine for obtaining motive-power and other useful purposes.	1468	29th May 1865	Henry Moseley.
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkington.
Improvements in machinery or apparatus for actuating the slide-valves of marine engines, and in the slide-valves thereof.	1538	5th June 1865	John Robertson.
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick Tolhausen.

Subject-matter of Patent.
MOTIVE-POWER, &c.—*continued.*
An improved metallic stuffing box -
Improvements in safety valves, which imp ments are also applicable to steam-engine other valves - - - -
Improvements in the permanent way of r and in locomotives applicable thereto.
Locomotive engines and railway carriages
Improvements in surface condensers for engines, and in feeding boilers therefrom.
Surface condensers - - - - (*Communicated by Alban Crocker Stimers*
Improvements in steam-boilers, furnaces, s gines, and in parts connected therewith.
Locomotive engines - - - (*Communicated by Auguste De Bergue.*)
Steam pumping machines or engines -
Improvements in locomotive engines and in of railway carriages.
Means and apparatus for increasing the me power of steam.
Improvements in steam carriages and in a wheels for common roads to railways. (*Communicated by Joseph Alphonse Loub*
Obtaining motive-power - - (*Communicated by Monsieur Charles Tell*
Steam and water valves - - -
Traction engines - - - (*Communicated by Alexander Keene Rich*
Slide valves - - - - -
Condensing apparatus for steam-engines
Construction of valves for steam and other (*Communicated by Thomas Shrimton Dar*
Conical plug steam-valves - - (*Communicated by John Wesley Carhart*
An improved water meter, which may be e as a water, steam or gas engine. (*Communicated by Henry Isham.*)
Obtaining motive-power by heat -
Improvements in and apparatus for treatin bogs and obtaining it therefrom, also a to tilling and cultivating land.
Apparatus applicable as a motive-power pump or fluid meter. (*Communicated by Francis Bernard de Ke*
Construction of steam-engines -
An improved mode of relieving slide-valve pressure.
Apparatus for obtaining and applying power to various useful purposes -

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Steam-engines - - - - - - (*Communicated by Giovanni Batista Venzano.*)	2130	18th Aug. 1865	James Stevenson.
Certain improvements in rotatory engines - -	2202	28th Aug. 1865	William Graham. John Broughton. Thomas Corkhill.
Traction engines and other vehicles - - -	2234	30th Aug. 1865	Samuel Lawrence James.
Certain improvements in steam-engines and valves (*Communicated by George Ichabod Washburn.*)	2286	6th Sept. 1865	William Clark.
A new method of and apparatus for condensing the steam of steam-engines - - - -	2376	18th Sept. 1865	Francesco Daina.
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages.	2379	18th Sept. 1865	Russel Aitken.
Apparatus for lubricating machinery - - (*steam-engines.*) (*Communicated by Joseph Bouillon.*)	2429	23rd Sept. 1865	Henri Adrien Bonneville.
An improved construction of engine which can be used either as a motor or for pumping. (*Communicated by John Benjamin Root and William Benjamin.*)	2453	25th Sept. 1865	William Edward Newton.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for tightening piston packing rings.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Steam-engines - - - - - -	2479	27th Sept. 1865	John Roger Arnoldi.
Compositions used for coating metallic surfaces - (*steam cylinders.*)	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Steam-engines - - - - - - (*Communicated by Nicolas Chenet and Pierre Jean Lacoste.*)	2502	29th Sept. 1865	William Edward Gedge.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor. - - -	2563	5th Oct. 1865	Robert William Fraser.
Rotary engines and pumps - - - (*Communicated by Fidèle Chatelain.*)	2567	6th Oct. 1865	Richard Archibald Brooman.
Construction of compound cylinder engines - (*Communicated by Matthew Murray Jackson.*)	2587	7th Oct. 1865	John Howard.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Improvements in and applicable to slide-valves, pistons and glands - - - - -	2700	19th Oct. 1865	Thomas Adams. George John Parson.
Steam-engines - - - - - -	2759	26th Oct. 1865	Edmund Hunt.
Certain improvements in mechanism or apparatus to be employed for lubricating the cylinders of steam-engines, or other similar frictional surfaces - - - - - - -	2881	8th Nov. 1865	Neville Beard. John Maiden.
Railway steam-engines and carriages - -	2928	14th Nov. 1865	Joseph Alphonse Loubat.
A new or improved steam wheel and apparatus connected therewith. (*Communicated by Jean Gabriel Alphonse Appé.*)	3037	27th Nov. 1865	William Edward Gedge.
A new or improved method of preventing the escape of heat from steam cylinders - -	3051	28th Nov. 1865	William Simons. Andrew Brown.
Improvements in locomotive engines and in the means employed for generating steam therein -	3185	9th Dec. 1865	Robert Francis Fairlie.
Steam-engines - - - - - -	3213	12th Dec. 1865	Joseph Stocker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
An improved construction of rotary engine -	3225	13th Dec. 1865	Peter Gardner.
Machinery or apparatus for cultivating land by steam power.	3226	13th Dec. 1865	Pryce William Bowen.
Locomotive engines - - - - - -	3259	16th Dec. 1865	James Atkinson Longridge.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Pistons - - - - - - - (*Communicated by David Lister.*)	3279	19th Dec. 1865	John Henry Johnson.
Steam engines - - - - - - (*Communicated by George Bender Whiting and Thomas Fitch Rowland.*)	3308	22nd Dec. 1865	William Clark.
Duplex steam-engines - - - - -	3350	27th Dec. 1865	Norman Willis Wheeler.
Steam-engines - - - - - -	3380	30th Dec. 1865	Richard Beck.
See also "GAUGES." *See also* "GOVERNORS."			
III.—Waterwheels and Engines; Hydraulic Motive-power.			
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - - - (*or water-engines.*)	166	19th Jan. 1865	William Cleveland Hicks.
Beam engines - - - - - -	468	18th Feb. 1865	James Grafton Jones.
An improved mercuro-hydraulic motor - - (*Communicated by Pierre Eugene Louvier.*)	492	22nd Feb. 1865	Richard Archibald Brooman.
Obtaining motive-power from aëriform fluids and from liquids.	501	22nd Feb. 1865	Matthew Piers Watt Boulton.
An improved arrangement of valves and other appliances for a new description of hydraulic engine for raising water and other fluids above their common level, the fluids so raised to be used as a motive-power - - - -	791	21st March 1865	James Smith. Sydney Arthur Chease.
Obtaining motive-power - - - - -	802	22nd March 1865	Valentine Baker.
Improvements in obtaining motive-power, parts of which improvements are applicable to the compressing of air and gases.	840	24th March 1865	Valentine Baker.
Improvements in paddle wheels, parts of which are applicable to other purposes. (*to water-engines.*)	935	3rd April 1865	William Cantrill Gollings.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
A new motive-power engine - - - -	1052	12th April 1865	Herman Leonhardt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
A new method of obtaining and applying water as a motive-power for propelling ships, boats and other vessels.	1058	13th April 1865	George Rosselet.
Improvements in means or apparatus for measuring the flow or passage of liquids, which improvements are also applicable in obtaining motive-power.	1150	25th April 1865	Thomas Walker.
Improved means or apparatus for gaining or acquiring motive-power.	1156	25th April 1865	Claude Jacquelin, jun^{r}.
Certain improvements in waterwheels - - (*Communicated by Eugène Romestin.*)	1189	28th April 1865	Arthur Charles Henderson.
A new or improved method of obtaining motive-power, together with certain machinery or apparatus for applying the same - - -	1504	1st June 1865	David Hancock. Frederick Barnes.
Machinery for obtaining power when fluid pressure is employed.	1576	9th June 1865	Lieutenant Colonel James Baker.
Hydraulic motive-power machinery - -	1642	17th June 1865	Valentine Baker.
An improved hydraulic apparatus for producing motive-power.	1701	26th June 1865	Josse Egide Spanoghe.
Construction or arrangement of sluices or dams -	1870	18th July 1865	Timothy Ward Wood.
Certain improvements in the method of obtaining motive-power and in apparatus connected therewith.	1910	22nd July 1865	Edmund Perré.
Means of and apparatus for raising water for agricultural and other useful and ornamental purposes. (*Communicated by Jean Louis Celestin Achard.*)	1918	22nd July 1865	William Edward Gedge.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Applying and utilising water power - - -	1967	29th July 1865	Valentine Baker.
Means of and mechanism for obtaining motive-power.	2020	4th Aug. 1865	Adderley Sleigh.
Apparatus for obtaining motive-power - - -	2425	22nd Sept. 1865	George Binnie M^{c}Nicol.
Hydraulic pressure engines - - -	2445	23rd Sept. 1865	Jacob Dreisörner.
A new method of obtaining and applying water as a motive-power, for propelling ships by means of paddle wheels, inside and outside.	2641	13th Oct. 1865	George Rosselet.
Improvements in means or apparatus for measuring the passage or flow of liquids, for raising and forcing fluids, and for obtaining motive-power, also in means for the manufacture of parts of such apparatus.	2968	17th Nov. 1865	Walter Payton.
Turbines for obtaining motive-power, applicable also to raising and forcing fluids, and to propelling ships or vessels. (*Communicated by Joseph Denis Farcot, Jean Joseph Léon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Chateau and Emmanuel Denis Farcot.*)	3222	13th Dec. 1865	William Brookes.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
MOTIVE-POWER, &c.—*continued.*			
Obtaining motive-power applicable to various useful purposes. (*by gravitation.*)	3260	16th Dec. 1865	Cecil Loftus Wellesley Reade.
MOULDINGS AND ARCHITECTURAL ORNAMENTS.			
Machinery or apparatus for planing and moulding or otherwise shaping wood - - -	143	17th Jan. 1865	John Robinson. John Smith.
Machinery or apparatus for cutting scrolls, frets and filigree work.	926	1st April 1865	James Kennan.
Staining and graining woods - - - (*transferring designs for ornamental scrolls.*)	1851	14th July 1865	John Morrough Murphy. James Morrough Murphy.
Certain improvements in window fittings - -	2603	10th Oct. 1865	William Cooke.
An improved preparation or composition for coating, covering or colouring walls and other surfaces or parts of buildings, and for forming mouldings, cornices and other decorative parts of houses.	2638	12th Oct. 1865	William Barwick.
Machinery or apparatus for moulding or cutting moulds, and planing wood and other similar materials - - - - - -	2711	20th Oct. 1865	William Blackett Haigh. William Bissell.
Manufacture of embossed wood - - - (*for mouldings.*) (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
Machinery for cutting mouldings in wood - - (*Communicated by John Bartlett Winslow.*)	3040	27th Nov. 1865	William Edward Newton.
Machinery or tools for cutting wood or other substances. (*moulding-machines.*)	3188	9th Dec. 1865	William Wilson Hulse.
MUSICAL INSTRUMENTS AND NOTATION; TURNING OVER LEAVES OF MUSIC, METRONOMES; TUNING INSTRUMENTS; TRANSPOSING MUSIC.			
Instruments or apparatus for teaching and transposing music. (*Communicated by Ferdinand Bellour.*)	102	12th Jan. 1865	Richard Archibald Brooman.
Certain improvements in the manufacture and construction of pianofortes or similar stringed instruments.	141	17th Jan. 1865	Francis Henry Lakin.
An improvement in clarinets - - -	308	4th Feb. 1865	James Park.
Organs and harmoniums - - - -	541	25th Feb. 1865	Ralph Smyth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Musical Instruments, &c.—*continued.*			
Action of upright pianofortes - - -	2607	10th Oct. 1865	George Glover Rich.
Pianofortes, harmoniums and organs - -	2683	18th Oct. 1865	Isaac Gregory, F.R.G.S. Enoch Farr. William Tarr.
Improvements in the manufacture of keys for pianofortes and other musical instruments requiring such keys, and in parts connected with such keys - - - - - -	2747	24th Oct. 1865	Daniel George Staight. Stephen Staight. James Cheverton.
An improved metronome or apparatus for measuring intervals of time.	2899	11th Nov. 1865	Henry Carnegie Carden.
Construction of pianofortes - - -	3064	29th Nov. 1865	Enoch Farr. Isaac Gregory, F.R.G.S.
Harmoniums, pianofortes, organs, and other similar keyed instruments.	3149	7th Dec. 1865	Wardle Eastland Evans.
Improved means of assisting the teaching and study of musical notation.	3196	11th Dec. 1865	Alexander Victor Martinus Marie.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for piano keys, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for drum cords.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Nails, Spikes, Bolts, Rivets, Screws, Nuts, Washers and Dies; Angle Iron, T Iron, Iron Knees.			
Improvements in screw taps more especially designed for cutting threads in the fittings and connections for gas, steam and water pipes.	257	28th Jan. 1865	William Foster.
Improvements in armour plated ships, forts, gun carriages and works of defence, and in fastenings to be employed therein. (*forming bolts hollow.*)	292	2nd Feb. 1865	Charles Lungley.
Railway chairs, fastenings and sleepers - -	318	4th Feb. 1865	Robert Richardson.
Machinery for preparing cotton and other fibrous substances. (*constructing screw nuts.*)	376	10th Feb. 1865	Edward Lord.
Machinery for rivetting and for making rivets -	400	13th Feb. 1865	Henry Martyn Kennard.
Dies for cutting screws - - - - - (*Communicated by Robert Kunstmann.*)	565	28th Feb. 1865	George Weigmann.
An improved machine for pointing or drawing down railway spikes, and which said improved machine is also applicable for forming or drawing down the shanks of ordinary spikes and other articles of irregular shape.	575	1st March 1865	Moses Bayliss.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
NAILS, &c.—*continued.*			
Machinery for screwing bolts and nuts - -	2060	9th Aug. 1865	George Harvey. Alexander Harvey, jun^{r}.
Bolt heading machines - - - - -	2104	15th Aug. 1865	John William M^{c}Dermott.
Improvements in boots and other coverings for the feet, which improvements are applicable also to trunks and other articles, for the purpose of strengthening, preserving or protecting them. (*substitutes for nails.*) (*Communicated by Jacob Nichols and Moses Pettes.*)	2133	18th Aug. 1865	Phineas Lawrence.
Manufacture of screws - - - - -	2240	31st Aug. 1865	William Carron.
Machinery for making rivets, spikes, screw blanks, bolts, nuts and other such like articles.	2353	14th Sept. 1865	John Lewis.
Machinery for the manufacture of rivets - -	2355	14th Sept. 1865	John Wakefield.
Machinery or apparatus for shaping metal articles - (*heading bolts.*) (*Communicated by Robert Heapy Butcher.*)	2371	16th Sept. 1865	John Henry Johnson.
Bolts, rivets and the like fastenings, for connecting together pieces of metal and other material.	2618	11th Oct. 1865	Frederic Pelham Warren.
Machinery for cutting screws - - - - -	2652	14th Oct. 1865	Joseph Tangye.
Certain new or improved machinery for the manufacture of nails.	2789	30th Oct. 1865	William Whittle.
Manufacture of spikes - - - - -	2806	31st Oct. 1865	Moses Bayliss.
A new and useful improvement in nail machines or the feeding mechanism therefor. (*Communicated by Cyrus Dexter Hunt.*)	2921	13th Nov. 1865	Henry Cogswell Davis.
Improvements in the manufacture of bevilled or convex iron washers, and in machinery to be employed in the said manufacture.	2957	17th Nov. 1865	George Carter.
Improvements in the construction of railways and in spikes for securing the rails in position. (*chamfering spikes.*) (*Communicated by John M^{c}Murtry.*)	3024	24th Nov. 1865	Alfred Vincent Newton.
A combined adjustable spanner, tube cutter and pipe wrench. (*spanner for unscrewing nuts and bolts.*) (*Communicated by Henry Hitchings Baragwanath and Martin Van Wisker.*)	3036	27th Nov. 1865	John Phillips Barragwanath.
An improved screwing and tapping machine -	3166	9th Dec. 1865	Emile Watteeu.
Machinery for finishing rivets - - -	3200	11th Dec. 1865	Henry Kinnaird York.
Machinery for manufacturing bolts and rivets - (*Communicated by Alexander M^{c}Connell White and Benjamin Butterworth.*)	3215	12th Dec. 1865	Alfred Vincent Newton.
Improvements in machines for making metal nuts and in dies for the same.	3266	18th Dec. 1865	Orrin Clarke Burdict.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for elastic washers in oil bores.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OIL-CLOTHS, &c.—*continued.*			
Manufacture of carpets and other terry and cut pile fabrics. (*When worn will serve as tent covers.*) (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Manufacture of mats, matting and brushes (*floor-cloths.*)	1758	3rd July 1865	George Hurn. Daniel Hurn.
An improved combination of materials for the manufacture of carpets, floor-cloth, felt, wall paper, fire proof flexible roofing, ship and boat building, and for other similar purposes	1775	5th July 1865	John Longbottom. Abram Longbottom.
The use and application of paper, printed or otherwise ornamented with water colors, for covering floors and other analagous purposes, as a substitute for carpets and oil-cloths, and of an improved coating or varnish to be applied to the same, to protect its surface from injury and wear.	1873	19th July 1865	Anson Henry Platt.
Construction of sewing-machines particularly adapted for sewing sacks and bags (*and for sewing tarpaulings.*)	2067	9th Aug. 1865	Barnabas Russ. Edward Gandell the younger.
Manufacture and ornamenting of carpets, rugs and other fabrics. (*table covers.*)	2181	25th Aug. 1865	Lemuel Clayton.
Ornamenting and protecting the edges of bed quilts, counterpanes, toilet covers, carriage rugs and other similar coverings, by edging, binding or fringing by machinery	2253	1st Sept. 1865	Robert Knowles. Joseph Lindley.
An improved composition or material to be employed in waterproofing or rendering woven fabrics impervious to moisture. (*cover for carriages, stacks, &c.*)	2568	6th Oct. 1865	Henry Francis Smith.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating waggon tilts, tents, &c.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Improvements in the manufacture of floor-cloth and in apparatus employed therein.	3252	15th Dec. 1865	Frederick Walton.
Manufacture of bed quilts, table and toilet covers	3255	16th Dec. 1865	Thomas Jones. Joseph Buckley.
Obtaining and employing continuous lengths of tanned leather for various useful purposes (*for railway sheets, rick-cloths, floor-cloths, toilet covers, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Improvements in floor-cloths and similar composition fabrics, in the manufacture of such fabrics, and in machinery employed therein	3370	29th Dec. 1865	John Howard Kidd. James Chadwick Mather.
Coverings for floors (*Communicated by Antoine Perrin and Achille Baudouin.*)	3384	30th Dec. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILING, &c.—*continued.*			
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*for lubricating bearings.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Locomotive engines - - - - - (*lubricating the valves.*) (*Communicated by Auguste De Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by François Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Improvements in the lubricating of spindles, the necks or bolsters in which the said spindles revolve having a traversing motion in the said neck or bolster.	2059	9th Aug. 1865	Jacob Henry Radcliffe.
Machinery for preparing cotton, wool and other fibrous materials - - - - -	2089	12th Aug. 1865	Jonas Tatham. John Smith.
Machinery for lubricating the axles of colliery and other similar waggons or trucks.	2090	12th Aug. 1865	James Knowles.
Improvements in revolving fire-arms, in projectiles and cartridges. (*lubricating fire-arms.*)	2108	15th Aug. 1865	James Broun.
Preparing lubricating compounds - - -	2118	16th Aug. 1865	William West.
Apparatus for lubricating shafts and other running surfaces.	2288	6th Sept. 1865	William Mycock.
Lubricating apparatus - - - -	2352	14th Sept. 1865	Isaac Beamish.
Apparatus for lubricating machinery - - (*Communicated by Joseph Bouillon.*)	2429	23rd Sept. 1865	Henri Adrien Bonneville.
Improved machinery for feeding fibrous substances to preparing, carding and other machinery for working wool and other filamentous substances. (*Communicated by Alexandre Deru.*)	2517	30th Sept. 1865	William Edward Newton.
An improved axle-box for supplying oil to the journals of railway vehicles. (*Communicated by Prosper Piot and Edmond Piot.*)	2737	23rd Oct. 1865	William Edward Gedge.
Improvements in the construction and working of electric telegraphs, and in apparatus connected therewith, partly applicable to other purposes. (*lubricating commutators.*)	2762	26th Oct. 1865	Henry Wilde.
Improvements in forges and in apparatus for lubricating parts thereof, which apparatus is also applicable for lubricating other moving parts of machinery. (*Communicated by Claude Henri Turge, sen'.*)	2878	8th Nov. 1865	William Edward Gedge.
Certain improvements in mechanism or apparatus to be employed for lubricating the cylinders of steam-engines, or other similar frictional surfaces	2881	8th Nov. 1865	Neville Beard. John Maiden.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap.	3107	4th Dec. 1865	Leopold Joseph Bouchart.
Means or apparatus for preparing and combing wool and other fibrous substances. (*oiling gill combs.*)	3123	5th Dec. 1865	Isaac Holden, M.P.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILS FROM SEEDS, &c.—*continued.*			
Improvements in vessels for containing blacking, polishing oils and other similar materials, and in apparatus connected therewith.	1327	12th May 1865	Thomas Davis.
Vessels or receptacles for containing oil and other liquids.	1359	16th May 1865	Svend Svendsen.
Purifying animal and vegetable oils or fatty matters to be used for lubricating and other purposes.	1453	27th May 1865	Scipion Sequelin.
A new method of manufacturing oil from fatty matters or the residuum arising from the distillation of fatty matters, the manufacture of stearic acid, soap, and purification of oils. (*Communicated by Pierre Réné Beaumont.*)	1456	27th May 1865	Richard Archibald Brooman.
Construction of reservoirs for containing and storing petroleum and other oils. (*Communicated by Paul Jacovenco.*)	1549	6th June 1865	Richard Archibald Brooman.
Purifying cotton seed oil - - -	1638	17th June 1865	George Payne.
Improved preparations for the treatment and preservation of the hair. (*oils.*) (*Communicated by Max Oldendorff and Pierre Lévy.*)	1647	19th June 1865	John Henry Johnson.
Manufacture of lamp oils - - - -	1768	4th July 1865	William Jenkins.
Manufacturing grease from soapsuds - -	1797	7th July 1865	Isaac Peel. William Hargreaves.
Machinery for treating cotton seeds in order to remove the cotton therefrom, and to prepare the seeds for crushing.	2196	26th Aug. 1865	François Antoine Edmond Guironnet de Massas.
Construction of hydrostatic presses - -	2304	8th Sept. 1865	John Weems. William Weems.
Manufacture of insoluble oils and greases - -	2390	19th Sept. 1865	Isaac Shimwell M^cDougall.
Construction of casks to be used more especially for the transport of oil.	2500	29th Sept. 1865	Johann Heinrich Pinckvoss.
Machinery or apparatus for preparing and supplying food for cattle. (*oil cake mills.*)	2514	30th Sept. 1865	Robert Willacy.
Cleaning cotton seeds - - - (*for the oil press.*) (*Communicated by Etienne Laporte.*)	2554	5th Oct. 1865	John Charles Stovin.
OILS OF TAR, BITUMEN AND RESIN; NAPHTHA, PARAFFINE, &c.; MINERAL OILS; HYDROCARBONS, PHOSPHORUS.			
Improvements in the treatment of oils obtained from the distillation of tar, and in the application of the same to the purposes for which ordinary drying oils are applicable. (*Communicated by Claudius Cordier and Vincent Cordier.*)	244	27th Jan. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OILS OF TAR, &c.—*continued.*			
Apparatus for raising oil and other liquids from deep wells. (*see* "PUMPS.") (*Communicated by Francis Stebbins Pease.*)	1392	20th May 1865	William Edward Newton.
Construction of reservoirs for containing and storing petroleum and other oils. (*Communicated by Paul Jacovenco.*)	1549	6th June 1865	Richard Archibald Brooman.
An improved method and apparatus for distilling coal shale and other carbonaceous substances. (*Communicated by John Howarth.*)	1553	7th June 1865	James Howarth, M.D.
Purifying paraffine - - - - -	1586	12th June 1865	John Edgar Poynter.
An improved method of and apparatus for burning liquid hydrocarbons, and the employment thereof for heating purposes. (*see* "HEATING.") (*Communicated by Alexandre Schpakofsky and Nicolas Stange.*)	1711	27th June 1865	Richard Archibald Brooman.
Apparatus for the decantation and raising of petroleum and other oils.	1724	28th June 1865	Paul Jacovenco.
Manufacture of lamp oils - - - - -	1768	4th July 1865	William Jenkins.
Apparatus for burning combustible and volatile liquids for generating steam and similar purposes (*Communicated by Patrick Hayes.*)	1938	26th July 1865	George Tomlinson Bousfield.
An improvement in refining petroleum and other hydrocarbon oils. (*Communicated by Robert Augustus Chesebrough.*)	1980	31st July 1865	Alfred Vincent Newton.
Treatment of hydrocarbon or paraffin oils - -	2008	3rd Aug. 1865	John William Perkins.
Stills for the distillation of petroleum and other oily substances.	2040	5th Aug. 1865	Adolphe Millochau.
Improvements in carburetting coal gas and manufacturing artificial gas, and in the machinery or apparatus employed therein.	2095	12th Aug. 1865	Henry Woodward.
Tanks and other receptacles for obtaining and transporting petroleum, naphtha and other oils and liquids, to prevent wastage by fire or filtration or evaporation, or hazard of life.	2185	25th Aug. 1865	George Washington Howard.
Treatment of certain products obtained in the refining of petroleum and of other hydrocarbon oils.	2195	26th Aug. 1865	John Fordred.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products from wood (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
Separating phosphorus from iron and other metals, in metallurgical processes.	2482	27th Sept. 1865	Carl Heinrich Ludwig Wintzer.
Apparatus for extracting oil from coal shale and other minerals.	2544	4th Oct. 1865	Allan Craig.
An improved mode of treating or preparing casks and other vessels, to make them tight and suitable for containing hydrocarbon and other fluids.	2644	13th Oct. 1865	George Marshall.
Purification and preparation of animal and vegetable wax, stearine, spermaceti, paraffine and other solid, waxy or fatty substances.	2768	27th Oct. 1865	Scipion Sequelin.
Improvements in the distillation of coal and shale, and in the apparatus employed therein.	2793	30th Oct. 1865	Edward Meldrum.

Subject-matter of Patent.
Oils of Tar, &c.—*continued.*
A combination of improved method, appara receptacles for storing, preserving, trans and discharging certain fluids, for sanit protective purposes. (*Communicated by Henry Pinkus.*)
Manufacture or purification of hydroca and especially of petroleum oils used for l purposes. (*Communicated by Doctor Pierre Gédéo and Chevalier Barthélemy Degola.*)
Improved apparatus for facilitating the tre preparing of casks and other vessels, t them tight and suitable for containing carbon and other fluids.
Apparatus for distilling oils and condens vapours. (*from shale.*)
An improved retort for distilling or extract ducts from cannel, coal, shale or schist, a especially from the small coal or dust tec known as "slack."
Obtaining oil and other products from bitu shale - - - - -
Purification, refining and treatment of the and fixed oils produced from the destruc tillation of peat or turf.
Treating hydrocarbon oils - -
Optical Instruments, Telescopes, scopes, Stereoscopes, Lenses; C Illusions.
A new or improved apparatus for illusory ex
An improved instrument for concentratin applicable to dental, surgical and other op (*combination of lenses.*)
Philosophical examination into the alleg manifestations, consisting of a lamp an room.
Spectacles, opera glasses, telescopes an apparatus. (*Communicated by Etienne Boudry.*)
A new or improved method of obtainin ducing optical illusions.
A new or improved apparatus for illusory e
Mounting telescopes and microscopes
Improvements in rules for measuring, and instruments or articles requiring to be or disposed at various angles. (*telescopes.*)

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Optical Instruments, &c.—*continued.*			
Transparent slides for magic lanterns and other similar purposes.	2815	1st Nov. 1865	Samuel Solomons.
Photographic lenses - - - - (*Communicated by Charles Augustus Steinheil.*)	2937	15th Nov. 1865	William Bünger.
Apparatus for illusory exhibitions - - -	3139	6th Dec. 1865	John Henry Pepper. Thomas William Tobin.
Microscopes - - - - - -	3211	12th Dec. 1865	Richard Beck.
A novel optical arrangement by which a new scenic effect is produced.	3286	20th Dec. 1865	Walter Kerr.
Construction of stereoscopes and stereoscopic apparatus.	3363	29th Dec. 1865	Isham Baggs.
Ovens and Kilns.			
Apparatus for charging and drawing gas retorts and for other purposes - - - - (*charging charcoal ovens.*)	142	17th Jan. 1865	Sealy James Best. James John Holden.
A new mode of placing china, stone and earthenware, in saggers, ovens and kilns, or other receptacles for firing the same.	276	1st Feb. 1865	James Meakin.
Apparatus for heating and cooling atmospheric air and other aëriform bodies, and for heating ovens, and for heating and ventilating buildings.	636	7th March 1865	Loftus Perkins.
Kitchen ranges - - - - - -	940	3rd April 1865	Frederick Brown.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
Baking of bread, biscuits and other farinaceous articles.	1106	20th April 1865	John Yeldham Betts.
Ovens for baking bread - - - -	1346	15th May 1865	John Dauglish, M.D.
Ovens or kilns for the manufacture of coke -	1435	25th May 1865	John Gjers.
Kilns for firing porcelain and other ware - - (*Communicated by François Durand.*)	1582	10th June 1865	Richard Archibald Brooman.
Construction of cooking stoves and ranges - -	1944	26th July 1865	William Barton.
Improvements in coke ovens and in the manufacture of coke.	2013	3rd Aug. 1865	William Morgans.
Method of heating the ovens and boilers of kitchen ranges or cooking stoves.	2176	24th Aug. 1865	Frederick Thomas.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*preserving uniform temperature in ovens*).	2184	25th Aug. 1865	Edwin Augustus Curley.
Method of and apparatus for treating peat and other plastic materials - - - - (*oven.*)	2219	29th Aug. 1865	Hull Terrell. Thomas Don.
Improvements in coke and charcoal ovens and in the manufacture of coke, parts of which are applicable to bread, biscuit and pastry ovens.	2477	27th Sept. 1865	William Morgans.

Subject-matter of Patent.

Ovens, &c.—*continued.*

Furnaces for heating the blast for blast furn
(*and cleansing ovens.*)

Cooking apparatus - - - -

An improved method of utilizing the waste
coke ovens.
(*Communicated by Antoine Barbier-Perro*

Construction of kitchen stoves and cooking r

Construction of fire-places and furnaces
(*with ovens.*)

Boilers or apparatus for generating steam -
(*for baking.*)
(*Communicated by Julien Belleville.*)

Oxidation and Incrustation (*Pr*
and Removing).

A method of and apparatus for preventing
tation or calcareous deposits in steam-boi
(*Communicated by Alexander Forbes Por*

A new or improved apparatus applicable t
boilers for preventing deposits therein,
(*Communicated by Louis Hippolyte*
Roubert.)

A metallic anti-corrosive varnish for protec
surfaces of metals from oxidation.

Coating the bottoms and sides of ships a
submerged structures to prevent foul
decay.

An improved varnish for preserving wood,
protecting iron ships and other metal w
oxydation and from fouling.
(*Communicated by Adolphe Guibert.*)

Protecting wooden surfaces from the foul
injury to which they are ordinarily liabl
water.

Improvements in coatings for the preventic
fouling to which iron and other ships a
tures are ordinarily liable in sea water.

Improvements in coating the bottoms of ir
and other surfaces, to prevent oxida
adhesion of marine animals and plant
compositions to be therein employed.

Protecting iron ships and other submerg
tures from oxidation and corrosion.

An improved composition for preventing th
of ships and other vessels.
(*Communicated by William Bolivar Dav*

Improvements in the fitting of surface c
tubes, and in the tools to be used ther
in the means of retarding corrosion i
boilers.
(*Communicated by William Judson.*)

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
OXIDATION, &c.—*continued.*			
Paints or compositions for coating and preserving metallic and other substances from oxidation and decay - - - - - -	1154	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
An improved composition for coating iron or other vessels, and for other similar purposes.	1278	9th May 1865	John Cornelius Craigie Halkett.
An improved composition for preventing incrustation in steam-boilers.	1324	12th May 1865	William Hewitt.
Annealing pots and saucers for annealing iron and steel wire, sheet metal and other articles. (*avoiding production of scale.*)	1480	30th May 1865	John Hibell.
Composition and manufacture of paints applicable to iron and other ships' bottoms, and for other general purposes.	1489	31st May 1865	Thomas Spencer.
Steam-boilers - - - - - - (*Communicated by Abram Samuel Mitchell.*)	1521	2nd June 1865	Henry Edward Newton.
Caloric or heated air engines - - - (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Improvements in the manufacture of paper and paper stock, and in the utilization of certain waste products resulting therefrom - - (*to prevent incrustation in steam-boilers.*)	1602	13th June 1865	Thomas Routledge. William Henry Richardson.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*removing films from metals.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Preventing the incrustation of steam-boilers - (*Communicated by Charles James Eames.*)	1734	29th June 1865	William Edward Newton.
An improved composition for coating ships' bottoms, and the surfaces of other vessels or structures which are exposed to the action of sea water - - - - - -	1943	26th July 1865	Frederick Pulman. Richard Ginman.
An improved composition for coating the bottoms of iron and wooden ships, by which the same are preserved from fouling and the iron from corrosion, whether internally or externally, by sea or other water or moisture, which is applicable to iron of any kind exposed to the action of moisture.	1986	1st Aug. 1865	William La Penotière.
Improvements in cleansing and coating the bottoms of ships and other submerged surfaces, to prevent oxidation and the adhesion of marine animals and plants, also in compositions to be employed for these purposes.	2316	9th Sept. 1865	Richard Percy Roberts.
An improved mode of removing and preventing the incrustation of steam-boilers - -	2321	11th Sept. 1865	William Tyne. Stephen Tyne. Robert Clayton.
An improved composition for preventing incrustation in steam-boilers.	2322	11th Sept. 1865	William Hewitt.
Compositions used for coating metallic surfaces -	2480	27th Sept. 1865	John Boffey. Charles William Smith.
An improved liquid compound for purifying sea and other waters. (*preventing incrustation.*) (*Communicated by Léandre Danjou.*)	2646	13th Oct. 1865	Richard Archibald Brooman.

Subject-matter of Patent.
OXIDATION, &c.—*continued*
A certain composition having anti-corro anti-fouling properties, for the preserv and keeping clean the bottoms of iron and also for the preservation of iron sul and iron structures exposed to the actio atmosphere or water - -
Improvements in steam-boilers and other a applicable to the heating and evapor liquids, parts of which improvements ar able also to other purposes - -
Apparatus for indicating and register temperatures. (*protecting fusible metals from oxidation*
An improved coating for covering the b iron and steel ships and other navigab and marine works, to prevent oxidatio adhesion of animal and vegetable matte
Improvements in the manufacture of sal machinery or apparatus for that purpose. (*preventing formation of pan scale.*)
Dyeing, printing and other operations chemical reactions. (*preventing oxidation of printing rollers* (*Communicated by Mathias Paraf-Javal*
Apparatus for preventing incrustation i boilers.
Boilers or apparatus for generating steam (*securing from incrustation.*) (*Communicated by Julien Belleville.*)
Improvements in caps employed in spinnin the manufacture thereof. (*preventing corrosion.*)

PAINTING, COLOURING AND VARNI PAINTS, COLOURS, VARNISHES, AND LACQUER.

Apparatus for painting venetian blinds an articles - - - -
Improvements in the treatment of oils obta the distillation of tar, and in the appl the same to the purposes for which drying oils are applicable. (*for painting, varnishing, &c.*) (*Communicated by Claudius Cordier a Cordier.*)
Treatment of tar oils for the purpose of the same as paint. (*Communicated by Vincent Cordier, Cordier and John Gatliff.*)
A metallic anti-corrosive varnish for prot surfaces of metals from oxidation.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAINTING, &c.—*continued.*			
Purification of lead to be employed for the manufacture of white lead, red lead and litharge.	310	4th Feb. 1865	John Arthur Phillips.
An improved varnish for preserving wood, and for protecting iron ships and other metal work from oxydation and from fouling. (*Communicated by Adolphe Guibert.*)	315	4th Feb. 1865	Richard Archibald Brooman.
Production of substances to be used in place of the pigment usually termed satin white.	371	9th Feb. 1865	John Dale.
Preparation of turpentines and varnishes - -	670	10th March 1865	Joseph Freeman. Edward Grace Freeman. Charles Henry Freeman.
An improvement in paints or compositions used for coating iron or wooden vessels, and other structures exposed to the action of sea water.	871	28th March 1865	John Cornelius Craigie Halkett.
An improved composition for preventing the fouling of ships and other vessels. (*Communicated by William Bolivar Davis.*)	1008	8th April 1865	George Davies.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*as a varnish.*) (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Protecting letters, numerals and ornamental designs on glass.	1111	21st April 1865	David Simson Buchanan.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - - (*and in making colour for graining.*)	1117	21st April 1865	William Scarratt. William Dean.
Paints or compositions for coating and preserving metallic and other substances from oxidation and decay - - - - - -	1154	25th April 1865	John Nurthall Brown. Thomas Deykin Clare.
Manufacture of parkesine or compounds of pyroxyline, and also solutions of pyroxyline known as collodion. (*useful as a varnish.*)	1313	11th May 1865	Alexander Parkes.
Improvements in ornamenting japanned surfaces and in machinery or apparatus for that purpose.	1454	27th May 1865	Leonard Brierley.
Brooms or brushes - - - - - - (*for colouring or whitewashing.*)	1482	30th May 1865	William Martin.
Composition and manufacture of paints applicable to iron and other ships' bottoms, and for other general purposes.	1489	31st May 1865	Thomas Spencer.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*applying to surfaces like paint.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
Preparation of paints - - - - -	1807	7th July 1865	George Fentiman.
Staining and graining woods - - - - -	1851	14th July 1865	John Morrough Murphy. James Morrough Murphy.
The use and application of paper, printed or otherwise ornamented with water colors, for covering floors and other analagous purposes, as a substitute for carpets and oil cloths, and of an improved coating or varnish to be applied to the same, to protect its surface from injury and wear.	1873	19th July 1865	Anson Henry Platt.

Subject-matter of Patent.
PAINTING, &c.—*continued.*
Improvements in the manufacture of carb ammonia, and in the utilization of the obtained in such manufacture. (*obtaining pigments.*) (*Communicated by Dr. Hugo Kunheim.*)
Paints or preparations for coating surfaces
Improvements in the mode or method of p materials for, and in the manufacture of rine telegraphic cables, the same being applicable for other purposes. (*making protective compositions appli paints, for railways, bridges, &c.*)
A new composition suitable for use as p protective coating. (*Communicated by William Potter.*)
An improvement in the treatment of tar substances suitable to be used in the ma of paint and for other purposes.
Treatment of certain products obtained in ing of petroleum and of other hydrocarb (*oils for mixing paints or varnishes.*)
Improvements in cleansing and coating th of ships and other submerged surfaces, t oxidation and the adhesion of marine an plants, also in compositions to be emp these purposes. (*compounding varnish.*)
Manufacture of white lead - -
A new or improved color slide and case f of artists and painters.
Improved apparatus to be fitted to wind cleaning, painting or otherwise.
Improvements in brushes for hair dress other uses, also in brooms and appar cleaning, preparing, painting, coati smoothing surfaces - -
An improved composition for enamel, p nish, cement or plaster. (*Communicated by William Barney Wa*
Dyeing, printing and other operations chemical reactions. (*painting.*) (*Communicated by Mathias Paraf-Java*
Apparatus employed in grinding corn and stances capable of being ground by mil (*paints.*)
A new process of lacquering and finish goods, such as gas fittings, and other li usually finished by bronzing and lacqu
Preparation of glue or gelatine so as t insoluble in water, and applicable by t ture of other substances to various pu which common glue or gelatine cann used. (*for a varnish, vehicle for pigments, &* (*Communicated by Henry Wurtz.*)

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, PASTEBOARD AND PAPIER-MÂCHÉ; PAPER-HANGINGS.			
I.—Making Paper, Papier-mâché, Preparing Pulp, &c.			
Machinery for smoothing or finishing paper - -	8	2nd Jan. 1865	James Roger Crompton.
Manufacturing paper - - - - (*Communicated by Jules Joseph Manecy.*)	15	3rd Jan. 1865	Léopold D'Aubréville.
Machinery for making paper board - - -	25	4th Jan. 1865	John Franklin Jones.
Machinery for the manufacture of paper board -	62	7th Jan. 1865	John Franklin Jones.
Preparing or treating wood and other vegetable fibrous materials for the manufacture of pulp for paper. (*Communicated by Zephirin Gaspard Alexandre Nathan Pétrone Orioli, Amable Alfred Fredet and Pierre Amable Henri Matussière.*)	80	10th Jan. 1865	William Clark.
Apparatus for drying paper in sheets - -	198	23rd Jan. 1865	Alfred Sheldon.
Filtering apparatuses - - - - - (*for straining paper pulp.*)	249	28th Jan. 1865	Victor Burq.
Treating spent or used leys resulting from the preparation of fibrous substances used in the manufacture of paper stock.	297	2nd Feb. 1865	Thomas Routledge.
Improved machinery for cutting, sifting, separating, bruising, sacking and preparing straw and other vegetable fibrous substances to be employed in the manufacture of various kinds of paper, and also for preparing food for cattle - - -	340	7th Feb. 1865	John Cornes. William Simpson.
Treatment and utilization of certain products obtained in the manufacture of paper or of paper stock - - - - - - -	532	25th Feb. 1865	Thomas Routledge. Thomas Richardson.
Machinery or apparatus used in the manufacture of paper - - - - - -	533	25th Feb. 1865	James Hyndford Rawlins. Joseph Chappell.
Improvements in machinery employed in the manufacture of paper, part of which is applicable to drying cylinders for other purposes.	581	2nd March 1865	James Park.
An improvement in putting up tobacco for smoking, and in the implements or pipes for smoking the same, and in making tobacco paper. (*see* "TOBACCO.") (*Communicated by Luther Holman Hale.*)	615	4th March 1865	William Edward Newton.
Application and utilization of certain materials suitable for the manufacture of paper. (*Communicated by Joachim John Monteiro.*)	703	13th March 1865	John Webb.
An improved method of treating, cleaning or preparing painted or other canvas, tarpaulins and dirty cotton waste, so as to render the same suitable to be used for household and other purposes for which they may be applicable. (*for manufacture of paper.*)	752	17th March 1865	William Maurice Williams.
Separating fibre from vegetable materials containing the same. (*Communicated by Antonio Meucci.*)	958	4th April 1865	George Tomlinson Bousfield.
Improved apparatus for reducing wheat and other straw. (*for paper making.*)	985	6th April 1865	Richard Garrett, jun^{r}.
Improvements in sizing paper and in the machinery employed therein.	1005	8th April 1865	William Weatherley.

Subject-matter of Patent.
PAPER, &c.—*continued.*
Washing or steeping and bleaching textile or materials. (*Communicated by Messieurs Neyret, Ori Fredet.*)
Apparatus for disintegrating vegetable and substances.
Improvements in photographing upon wo in the preparation of wood, canvas, silk, gl other substances, for the purpose of receiv retaining impressions.
Certain improvements in mechanism or ap for making and cutting cardboard.
Process and apparatus for the treatment of m for the manufacture of paper and other p
Improvements in paper or cloth-lined paper and in the machinery for manufacturi same.
Certain improvements in machinery emplo and for the manufacture of paper -
Improvements in the manufacture of pap paper stock, and in the utilization of waste products resulting therefrom -
An improvement in the preparation of ve fibre for the manufacture of paper.
Machines for making paper board - -
Machinery for the manufacture of paper bo paper.
Means of and apparatus for treating anir vegetable fibrous materials, which appa also applicable to various useful purposes
Improvements in the raising, lifting or d and forcing of water and other liquids, the apparatus and means employed there (*for paper mills.*)
Manufacture of paper - - -
An improved preparation for the preven forgery of bank cheques, bills and other ments - - - - -
Manufacture of paper boards and pipes
Manufacture of the straw of rye and othe and grasses, into fibre, and utilising the (*for papier-mâché.*)
An improvement in the manufacture of pa (*Communicated by James Brewer Brown.*
Manufacture of paper - -
Improvements in the manufacture of pap introduction therein of a new vegetabl substance.
Mode of treating the roots of the lucerne p the purpose of manufacturing paper, pa fabrics and ropes therefrom. (*Communicated by John Peter Caminade*

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
Apparatus for steeping or treating paper pulp and other matters subjected to the action of alkalies. (*Communicated by Messieurs. Neyret, Orioli and Fredet.*)	2574	6th Oct. 1865	William Clark.
An improvement in preparing paper and the surfaces of other materials for use in photography.	2648	13th Oct. 1865	Johannes De Witt Brinckerhoff.
Improvements in the method of and apparatus for utilizing the liquors used in the treatment of straw or other fibrous materials for the manufacture of paper, which improvements are also applicable to the evaporation of liquids generally. (*Communicated by Eugene Porion.*)	2726	21st Oct. 1865	James Wright.
Manufacture of paper from marine vegetable matters (*Communicated by Pierre Ernest Gégnon and Charles Marie Gagnage.*)	2741	23rd Oct. 1865	William Clark.
Treating vegetable fibres used in the manufacture of paper and other similar substances made from pulp. (*Communicated by Louis Horst.*)	2882	8th Nov. 1865	Godfrey Anthony Ermen.
An improved method or process for producing paper makers' pulp from cane, bamboo and other analogous substances. (*Communicated by Charles Heaton.*)	2922	13th Nov. 1865	William Robert Lake.
Application of photography to the obtaining of printed proofs or impressions or engravings (*photographic paper.*)	2954	17th Nov. 1865	Edward Bullock. James Bullock.
Manufacture of endless cloths (*used in paper making.*)	2966	17th Nov. 1865	James Heywood Whitehead.
Improved machinery to be used in the manufacture of paper. (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Improvements in the process of treating materials for the manufacture of paper and other similar textile fabrics, and in apparatus for the same. (*Communicated by Robert Hanham Collyer.*)	3067	29th Nov. 1865	Charles Stuart Baker.
The manufacture of pulp from "Lygeum Spartum" (*Communicated by Antonio Escubos.*)	3219	13th Dec. 1865	Richard Archibald Brooman.
Improved apparatus for manufacturing paper pulp	3245	14th Dec. 1865	William Alfred West.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes.	3318	22nd Dec. 1865	John Alexander Cooper.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*applicable as papier-mâché, for stiffening paper, &c.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
II.—Cutting, Folding and Ornamenting Paper and Papier-mâché; Applications of Paper.			
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks (*from paper.*)	399	13th Feb. 1865	David Barr. William Henry Page. James Clement Newey.

Subject-matter of Patent.
PAPER, &c.— *continued.*
An improved composition as a substitute for or other similar materials - -
Apparatus for folding envelopes -
Paper and cloth-lined paper collars for la gentlemen.
Certain improvements in apparatus for paper, pasteboard and similar substances
Improvements in machinery employed in t facture of paper, part of which is app drying cylinders for other purposes.
Improved machinery for manufacturing p cloth-lined paper collars for gentlemen a
Apparatus for cutting pasteboard and c boards. (*Communicated by Elizur Ely Clarke.*)
Manufacture of jewelry cases and other sin
Ornamenting the surfaces of japanned go papier mâché goods, and other varnished
Improved means of preventing the leakage and of rendering packages and fabrics in to air and gases. (*coating paper.*) (*Communicated by Lewis Francis a Loutrel.*)
Manufacture of letter-clips, book-marke knives, and clips for suspending st drapery and pictures, and for other s purposes - - - -
Improvements in embossing presses to fa operation of relief coloring on envel paper and other similar articles of static
Certain improvements in mechanism or for making and cutting cardboard.
An improvement in the manufacture of en
Improvements in reproducing or produc of writings, drawings, music and other and in preparing originals to be trans electric telegraph. (*preparing a metallic paper.*) (*Communicated by Jacques Paul Lamb*
Certain improvements in machinery em and for the manufacture of paper
The use and application of paper, printe wise ornamented with water colors, fo floors and other analogous purposes, a tute for carpets and oil cloths, and of a coating or varnish to be applied to th protect its surface from injury and wea
Compounds for waterproofing and insul poses.
Improvements in reducing vegetable fil and in machinery employed therein.
Printing machines - - -

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PAPER, &c.—*continued.*			
Machinery or apparatus for the manufacture of paper bags. (*Communicated by Delavan Clark.*)	2116	16th Aug. 1865	John Henry Johnson.
An improved covering for rollers or cylinders -	2157	22nd Aug. 1865	James Alfred Turner.
Improved machinery for the manufacture of bags and envelopes made of paper or other fibrous materials or woven or textile fabrics, either separately or combined.	2420	22nd Sept. 1865	Henry Rankin.
An improved apparatus for bordering paper and envelopes.	2441	23rd Sept. 1865	Joseph Parkins.
Manufacture of knickerbockers and such like coverings for the legs. (*cloth and paper pulp.*)	2460	26th Sept. 1865	William Ambler.
Pianofortes, harmoniums and organs - -	2683	18th Oct. 1865	Isaac Gregory, F.R.G.S. Enoch Farr. William Tarr.
Preparation of photographic papers - - - (*Communicated by Laurent de Montgolfier.*)	2754	25th Oct. 1865	William Edward Newton.
Improvements in envelopes and in the construction thereof.	2794	30th Oct. 1865	Robert Girdwood.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Improvements in the manufacture of air tight coffins and in the mode of ornamenting or finishing the same, as also in the application of a material or composition not hitherto used in their production - - - - - (*of paper boards.*)	3014	24th Nov. 1865	Henry John Cox. William Loach.
Apparatus for embossing - - - - (*and applying gold leaf.*)	3063	29th Nov. 1865	John Erskine Brown.
Certain improvements having reference to shirt collars and mechanism for manufacturing the same. (*paper collars.*)	3065	29th Nov. 1865	George Knowles Snow.
Machinery for cutting paper - - -	3189	11th Dec. 1865	Thomas Corfauld Usher.
Envelopes - - - - - - -	3207	12th Dec. 1865	Henry Yates Thompson.
Apparatus for damping and gumming labels, stamps, envelopes and sheets of paper - -	3343	27th Dec. 1865	Joseph Benn. George Oswald Luckman.
III.—Paper-hangings.			
Manufacture of paper-hangings - - -	322	6th Feb. 1865	Jabez Booth.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - - (*such as paper-hangings.*)	1117	21st April 1865	William Scarratt. William Dean.
Paper-hangings - - - - -	1243	4th May 1865	Gustave Josse.
Apparatus for the manufacture of "impressed gold" and similar paper-hangings - -	1399	22nd May 1865	John Wylie. James Rew.

Subject-matter of Patent.
PAPER, &c.—*continued.*
An improved combination of materials f manufacture of carpets, floor cloth, felt paper, fireproof flexible roofing, ship an building, and for other similar purposes
Machinery or apparatus for cutting the e paper-hangings.
PAVING, ROAD-MAKING AND CLEAI PAVEMENTS.
Construction and paving of roads and other
Improved means or apparatus for facing f smoothing the surface of stones - -
Improvements in the construction of r pavements, and iron girders specially a for the purpose of constructing roads, pa bridges, and all description of buildings.
An improved machine for clearing, sweep removing the refuse from highways, str roads or ways, applicable also for remo leaves of cut grass and other refuse fro and other grass lands and walks.
Improvements in carriage ways and in carr the same.
Brushes or brooms - - - (*street brooms.*)
Constructing roads and streets -
An improved road scraper - -
Construction of roadways, floorings or othe
Construction of suspended bridges, road ducts or other way.
Machinery for excavating earth -
Construction of roadways, floorings ar surfaces.
Improved machinery for cutting tunnels ar ing shafts - - - - (*cutting levels.*)
An improved system of pavement to supe macadamized system used in the main large cities and causeways subject to a culation of vehicles.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PEAT.			
Improvements in treating or manufacturing peat for fuel and in apparatus for the same.	319	4th Feb. 1865	Robert Morellet Alloway.
Improvements in drying and sorting coals, peat and mineral ores, in separating extraneous matters therefrom, and in apparatus used in those processes.	715	14th March 1865	Ferdinand Henry Warlich.
Manufacture of artificial fuel - - -	1547	6th June 1865	David Barker.
A new or improved artificial fuel - - -	1600	13th June 1865	Charles James Collins.
An improved pulping and compressing machine, for the treatment of peat as a fuel, and gas for illuminating purposes - - - - -	1703	26th June 1865	Charles Worssam. George Evans.
Improvements in and apparatus for treating peat in bogs and obtaining it therefrom, also applicable to tilling and cultivating land.	2004	2nd Aug. 1865	Charles Hodgson.
Method of and apparatus for treating peat and other plastic materials - - - - -	2219	29th Aug. 1865	Hull Terrell. Thomas Don.
Preparing peat or turf for fire lights and fuel, and for machinery to be employed therein.	2436	23rd Sept. 1865	Thomas Vincent Lee.
Machinery for tempering and preparing peat for fuel. (*Communicated by Nathaniel Frothingham Potter.*)	2469	26th Sept. 1865	George Tomlinson Bousfield.
Manufacture of candles and other illuminating bodies from peat and petroleum.	2580	7th Oct. 1865	Thomas Vincent Lee.
Arrangements or apparatus for drying peat - -	2824	2nd Nov. 1865	Murdoch Campbell. Algernon Charles Plumptre Coote. John Charles Augustus Henry Wolffram.
Purification, refining and treatment of the volatile and fixed oils produced from the destructive distillation of peat or turf.	3312	22nd Dec. 1865	Denis M^{c}Grath.
PENS, PENHOLDERS, PENCILS AND PENCIL-CASES.			
Pencil cases usually termed ever-pointed pencils - (*Communicated by Henri Louis Riottot, jun^{r}.*)	234	26th Jan. 1865	William Clark.
Certain improvements in the manufacture of pencil cases.	298	3rd Feb. 1865	William Vale.
Improvements in pencil holders and penholders, and in holders for crayons and other marking, writing or drawing materials.	352	8th Feb. 1865	William Edward Wiley.
Pen and pencil holders - - - -	394	11th Feb. 1865	Edward Jacob Hill.
Certain improvements in the manufacture of penholders.	406	13th Feb. 1865	Francis Charles Vannet.
Improvements in ornamenting china and earthenware, and in preparing materials to be employed therefor. (*crayons.*)	435	15th Feb. 1865	Francis Joseph Emery.

Subject-matter of Patent.

PENS, &c.—*continued.*

An improved apparatus combining a penc and india-rubber.

Pen holders or cases - - -
(*Communicated by Auguste Masson an Hubert Cary.*)

Ever-pointed pencils - -

An improved self-supplying pen -

Certain improvements in the manufacture holders.

Manufacture of pocket pencils -

Pencils and pencil-cases having a moveable

Pens used for writing - -

An improved penholder -

Certain improvements in cutting or dividin and in the machinery or apparatus c therewith.
(*for pencils.*)

Preparation of glue or gelatine so as to insoluble in water, and applicable by th ture of other substances, to various pur which common glue or gelatine cannot used.
(*for penholders, pencil-cases, &c.*)
(*Communicated by Henry Wurtz.*)

PETTICOATS, SKIRTS, STAYS, CRI RUFFLES, COLLARS AND OTHER LI TICLES OF LADIES' ATTIRE; SHA

Manufacture of crinoline skirts -

Fastenings for stay busks, leggings, ga other similar articles.

A new method (or mechanical contriva lacing and fastening ladies' stays (s called corsets and bodices).

Certain improvements in scarfs and in the ture of the same.
(*Communicated by Leon de Moses Parie*

Improvements in crinoline skirts and in f for the steels or hoops of the same.

Paper and cloth-lined paper collars for l gentlemen.

Improvements in covered steel for crinol and in the machinery for covering an the same.
(*Communicated by Oliver Rogers Burnl*

An improvement in covered springs for and in means for manufacturing the sar able also to other purposes.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PETTICOATS, &c.—*continued.*			
An improved manufacture of trimming applicable to the ornamentation of ladies' dresses.	720	14th March 1865	John Peter Booth.
Machinery for cutting, punching, raising, shaping or drawing through sheet metal, by means of tools and dies. (*crinoline clips.*)	795	22nd March 1865	George Farmer.
Means of ornamenting linen cuffs and collars -	1010	8th April 1865	Joseph Debnam.
An improved manufacture of ladies' skirts - -	1080	18th April 1865	John Crosbie Aitken Henderson.
Improvements applicable to capes, paletôts, overcoats and other such like garments.	1128	22nd April 1865	John Emary.
Manufacture of dress shirts and dresses made by means of the stocking frame.	1188	28th April 1865	Edward Moore.
Fasteners for stays or corsets or other articles of dress.	1284	9th May 1865	George Hartley.
Means or method of securing or fastening the stiffeners or supports of stays, corsets and other such like articles of dress.	1338	13th May 1865	Richard Langridge.
An improved stay or corset busk - - - (*Communicated by Telesphore Genty.*)	1446	26th May 1865	William Edward Gedge.
An improved machine for curling or curving collars and cuffs.	1589	12th June 1865	George Speight.
Manufacture of collars and cuffs - - (*Communicated by Henri Lucien Girard.*)	1741	30th June 1865	Richard Archibald Brooman.
Improved linings for ladies' dresses - - (*Communicated by Friedrich August Pieper.*)	1763	4th July 1865	Philip Passavant.
Protecting crinoline steel, stay busks, springs for leggings or gaiters, and other similar fastenings.	1883	19th July 1865	William Edwards.
Crinolines - - - - - - -	1922	24th July 1865	James Leetch.
Certain improvements in crinolines - - -	1974	31st July 1865	Auguste Yves Rehm.
A new and improved application of imitation embroidery to be employed for the ornamentation of crinolines.	2131	18th Aug. 1865	Richard Clarke.
Apparatus for raising and holding the skirts of ladies' dresses. (*Communicated by Charles Doudet.*)	2207	28th Aug. 1865	Henri Adrien Bonneville.
Improvements in ruffles or frills composed of strips of fabrics, and in the machinery or apparatus employed for their manufacture.	2579	6th Oct. 1865	Chauncey Orrin Crosby.
An improvement or improvements in the manufacture of stays and bodices.	3011	23rd Nov. 1865	John Ellis the younger.
Manufacture of stays, corsets and other similar articles.	3049	28th Nov. 1865	Edward Drucker.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*making crinolines.*) (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
Improvements in the manufacture or production of stays, corsets and bodices and other similar articles of dress, and in the fastenings for same.	3072	30th Nov. 1865	Stephen Dixon.
Manufacture of shawls and similar ornamental weavings.	3145	6th Dec. 1865	William Houghton Clabburn.
Manufacture of stays or corsets - - -	3238	14th Dec. 1865	William Pretty.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PETTICOATS, &c.—*continued.*			
An improved kind of clasp or dress preserver, to prevent ladies' dresses from trailing along the ground. (*Communicated by Marie Louise Changeur.*)	3298	20th Dec. 1865	Henry Edward Newton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*for coating wire for hoop skirts.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for crinolines, skirts, dresses, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
PHOTOGRAPHY AND PHOTOGRAPHIC APPARATUS.			
Mounting photographic printed and other pictures (*Communicated by Louis Strelisky.*)	10	2nd Jan. 1865	Frederick Gye.
Manufacture of enamelled glass to render it more useful in photographic art.	12	3rd Jan. 1865	William George Helsby.
Improvements in producing and finishing photographs and photographic transparencies on paper and other suitable substances, and in the machinery employed therein - - - -	56	7th Jan. 1865	Barrowclough Wright Bentley. William Henry Bailey.
Improvements in giving permanence to and in ornamenting glass transparent positive photographs.	72	10th Jan. 1865	Edwin Pettitt.
Photo-sculpture and apparatus to be employed therein.	218	26th Jan. 1865	David Gay.
A method of or process for producing a new kind of photographic pictures.	618	4th March 1865	Edwin Pettitt.
Improvements in ascertaining the presence of "fixing" agents in photographic productions, in removing the said fixing agents therefrom, and in apparatus connected therewith. (*Communicated by Wilhelm Reissig.*)	677	10th March 1865	Theodor Reissig.
Improved processes for the production of photographic images capable of being inked with fatty inks. (*Communicated by Cyprien Marie Tessié du Motay and Charles Raphael Maréchal.*)	712	14th March 1865	Richard Archibald Brooman.
Ornamenting the surfaces of japanned goods and papier mâché goods, and other varnished surfaces - - - - - - - (*applying photographic pictures.*)	831	24th March 1865	Thomas Farmer. Frederick Lewis.
Improved apparatus for mounting photographs -	915	31st March 1865	John Henry Smith.
Photographic cameras - - - - -	1009	8th April 1865	Victor Albert Prout.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PHOTOGRAPHY, &c.—*continued.*			
Improvements in the manufacture and application of devices and representations to tombstones, and in other public or exposed situations, for various purposes - - - - - (*preparing photographic likenesses.*)	1130	22nd April 1865	Alfred Grainger. Charles Mitchel Girdler.
Photographic cameras - - - - -	1171	26th April 1865	John Alexander Rowland.
Improvements in photographing upon wood, and in the preparation of wood, canvas, silk, glass and other substances, for the purpose of receiving and retaining impressions.	1174	26th April 1865	William Henry Smith.
Production of portraits or likenesses on certain materials, by means of photography - -	1184	27th April 1865	Alfred Grainger. Charles Mitchel Girdler.
Manufacture of parkesine or compounds of pyroxyline, and also solutions of pyroxyline known as collodion. (*for photographic purposes.*)	1313	11th May 1865	Alexander Parkes.
A new or improved method of obtaining or producing optical illusions.	1588	12th June 1865	Gaetan Bonelli.
Producing a light applicable to photographic purposes, to lighthouses, and to other illuminations.	1653	20th June 1865	Prospero Carlevaris.
Improvements in the production of printing surfaces by photographic agency, and in obtaining prints therefrom.	1791	6th July 1865	Joseph Wilson Swan.
Construction of portable dark tents or chambers for photographers.	1808	7th July 1865	James Willis.
A new or improved method of producing a photographic image on the surface of copper or other metal plates.	1984	1st Aug. 1865	Francis Ross Wells.
Production of surfaces by means of photography - (*Communicated by Henry Avet.*)	2110	15th Aug. 1865	Michael Henry.
Engraving on metal - - - - - (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	2388	19th Sept. 1865	Richard Archibald Brooman.
An improvement in preparing paper and the surfaces of other materials for use in photography.	2648	13th Oct. 1865	Johannes De Witt Brinckerhoff.
Preparation of photographic papers - - - (*Communicated by Laurent de Montgolfier.*)	2754	25th Oct. 1865	William Edward Newton.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Photographic lenses - - - - - (*Communicated by Charles Augustus Steinheil.*)	2937	15th Nov. 1865	William Bünger.
Rests or apparatus employed when taking photographs of the human figure.	2949	16th Nov. 1865	Oliver Sarony.
Application of photography to the obtaining of printed proofs or impressions or engravings -	2954	17th Nov. 1865	Edward Bullock. James Bullock.
An improved mode of obtaining printing surfaces by photography. (*Communicated by Frederick Von Egloffstein.*)	3053	28th Nov. 1865	Alfred Vincent Newton.
An improved mode of applying photographic paper pictures to glass.	3092	2nd Dec. 1865	Anna Josephine Wright.
Photographic surfaces and the compositions and process for preparing the same.	3190	11th Dec. 1865	Victor Moreau Griswold.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PICTURES, &c.—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for picture frames.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*cord for hanging pictures.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Construction of show cases, picture frames, house and shop furniture and fittings, and other similar articles.	3364	29th Dec. 1865	David Vogl.
PILE-DRIVING AND DRAWING.			
Hammers and pile drivers to be worked by steam or other power. (*Communicated by Charles Michel Nillus, Ernest Ferdinand Nillus, Albert Emmanuel Nillus and Jean Joseph Manlius Crouvés.*)	181	20th Jan. 1865	William Edward Newton.
Protecting wooden surfaces from the fouling and injury to which they are ordinarily liable in sea water. (*piles.*)	363	9th Feb. 1865	John Cornelius Craigie Halkett.
Improvements in driving piles and in apparatus therefor - - - - - - -	597	3rd March 1865	David Manwell. James Manwell.
An improved composition for coating iron or other vessels, and for other similar purposes. (*piles, &c.*)	1278	9th May 1865	John Cornelius Craigie Halkett.
Machinery for driving piles - - - - -	1378	18th May 1865	William Eassie.
Machinery applicable to the cutting off the upper parts of piles - - - - - -	1408	22nd May 1865	George Furness. James Slater.
Improved machinery or apparatus for cutting off wooden piles below water.	1474	29th May 1865	Charles Henry Murray.
PILLARS, COLUMNS, POSTS, SLABS, VASES; STATUARY.			
Photo-sculpture and apparatus to be employed therein.	218	26th Jan. 1865	David Gay.
An improvement in the manufacture of artificial stone for building and other purposes. (*for columns.*)	441	16th Feb. 1865	William Kirrage.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles. (*columns, busts, &c.*)	699	13th March 1865	James Atkins.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PILLARS, &c.—*continued.*			
Posts or supports for telegraph wires, also applicable to posts or supports employed for other purposes - - - - - - -	749	17th March 1865	George Dibley. Frederick Braby.
An improved socket for fencing and telegraph posts	775	20th March 1865	Arthur Giraud Browning.
Improvements in the manufacture and application of devices and representations to tombstones, and in other public or exposed situations, for various purposes.	1130	22nd April 1865	Alfred Grainger. Charles Mitchel Girdler.
Manufacture and application of glass and other vitreous compositions - - - - - (*for monumental tablets, slabs, &c.*)	1220	1st May 1865	Arthur Howard Emerson. Robert Fowler.
Certain improvements in the manufacture of "moulds" for metallic castings having a cylindrical form. (*supporting-pillars.*)	1295	10th May 1865	David Hartley.
Manufacture of slabs, bearers, and other articles of artificial stone where great strength is required.	1337	13th May 1865	Frederick Ransome.
Telegraph supports, parts of the invention being applicable to other purposes - - -	1390	20th May 1865	Cornelius Varley. Samuel Alfred Varley.
Manufacture of iron piers or erections, applicable more especially for carrying bridges at high elevations, or available for sheer legs and light-houses.	1533	5th June 1865	Charles De Bergue.
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings. (*adapted to ornamental columns.*)	1885	19th July 1865	George Nimmo.
Manufacture of bricks and other analogous materials. (*for columns, balustrades, &c.*)	2571	6th Oct. 1865	Victor Jean Baptiste Germaix.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating posts.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Purification and preparation of animal and vegetable wax, stearine, spermaceti, paraffine and other solid, waxy or fatty substances. (*for statuettes.*)	2768	27th Oct. 1865	Scipion Sequelin.
A new or improved cement or composition applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*moulding statues, vases, slabs, &c.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required.	3314	22nd Dec. 1865	Edward Deane.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PINS AND NEEDLES.			
Hair pins - - - - - - (*Communicated by Joseph Charles Howells.*)	325	6th Feb. 1865	Richard Archibald Brooman.
Machinery or apparatus for cutting and shaping metals, making nails, rivets and similar articles	644	8th March 1865	Joseph Wadsworth. James Wadsworth.
Certain improvements in machinery and appliances for the manufacture of nails, pins and rivets -	785	21st March 1865	Charles Farmer. Thomas Turner.
Fastenings for pins, buttons and other articles with metallic backs.	881	28th March 1865	Isaac Louis Pulvermacher.
An improved mode of pointing or tapering the ends of metallic rods or wires, applicable to the manufacture of pins, needles, and other articles where points or tapered ends are required. (*Communicated by Henri Cauderay.*)	976	6th April 1865	Edwin Henry Newby.
Machinery or apparatus for tapering, pointing or reducing wires or rods for spindles, hatchel teeth, pins for dresses, and similar articles.	1383	16th May 1865	Chauncey Orrin Crosby.
Machinery for the manufacture of needles - -	1685	23rd June 1865	William Lusty.
An improvement in metal pins - - -	1920	24th July 1865	Herbert William Hart.
Machinery or apparatus for the manufacture of needles.	2074	10th Aug. 1865	Chauncey Orrin Crosby.
An improved sewing machine - - - (*needle.*) (*Communicated by Henry Hudson.*)	2532	3rd Oct. 1865	William Robert Lake.
Improvements in sewing machinery for using waxed thread. (*needle.*) (*Communicated by Thomas John Halligan.*)	2748	24th Oct. 1865	Alfred Vincent Newton.
An improved needle - - - -	2766	26th Oct. 1865	Leonard Bennett.
Knitting-machine needles - - - (*Communicated by Isaac Wixom Lamb.*)	2960	17th Nov. 1865	William Clark.
Sewing-machines - - - - - (*needles.*)	3086	1st Dec. 1865	Henry Hedley. George Ainsley.
Improved machinery for manufacturing sewing-machine needles - - - - (*Partly communicated by Joseph Thorne.*)	3143	6th Dec. 1865	Nahum Salamon. William John Lawrence Davids.
Boxes or cases for needles - - -	3309	22nd Dec. 1865	Richard Newhall.
PIPES, TUBES AND SYPHONS; TOBACCO-PIPES; JOINING PIPES.			
Stoppers for bottles, jars, vessels and tubes, also for ordnance and fire-arms.	27	4th Jan. 1865	Nathan Thompson.
An improved apparatus for cutting iron gas or other pipes. (*Communicated by Jules Chartiez.*)	85	11th Jan. 1865	William Edward Gedge.
Packing for steam joints, stuffing boxes, pistons and the like.	217	26th Jan. 1865	William Paton.
Machinery for compressing coal dust and other materials fit for burning, also clay into bricks, tiles, pipes and other like articles.	220	26th Jan. 1865	William Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, &c.—*continued.*			
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
Improved contrivances to facilitate the arrangement of flowers and leaves. (*making tubes for the reception of flowers.*)	1187	28th April 1865	Thomas Charles March.
Improvements in steam-engines, relating to valve motions, governor and drain pipes - -	1195	29th April 1865	Andrew Wyllie. John M'Farlane Gray
Making moulds for casting pipes and other articles of various sizes.	1206	1st May 1865	David Yoolow Stewart.
Improvements in finishing and polishing metal tubes and rods, and in apparatus or machinery to be employed therein.	1229	2nd May 1865	Thomas Allcock.
Improvements in means or apparatus for fixing or tightening the ends of boiler and other tubes, and in cutting the ends or other parts of such tubes.	1282	9th May 1865	Ralph Hart Tweddell.
Certain improvements in the manufacture of "moulds" for metallic castings having a cylindrical form. (*metallic tubes, pipes, &c.*)	1295	10th May 1865	David Hartley.
Improvements in the manufacture of hose and other flexible tubing, which improvements are also applicable in uniting surfaces of india-rubber, gutta-percha or of compounds thereof, to each other, or to woven or other fabric or material for other purposes.	1309	11th May 1865	Thomas Jefferson Mayall.
Improved apparatus for cutting, turning and smoothing metal pipes, and the surfaces of bolts, rods or spindles - - - - -	1311	11th May 1865	George Mountford. Edward Worroll.
Certain improvements in apparatus for cutting or forming screws, which is also applicable for cutting pipes or tubes.	1411	23rd May 1865	Edward M'Nally.
Apparatus for making cores and moulds for casting - - - - - - - (*pipes of small size.*)	1429	25th May 1865	David Law. James Bennet.
A new and improved mode of making and venting cores and parts of moulds, to be used in the casting of iron or other metal. (*casting pipes.*) (*Communicated by Joseph Harrison, jun'.*)	1434	25th May 1865	John Henry Johnson.
Instruments or apparatus for cleaning the interior of tubes or hollow cylinders, gas chimneys and other hollow articles.	1479	30th May 1865	James Hare the younger.
Furnaces used in the manufacture of welded iron tubes.	1517	2nd June 1865	Thomas Pritchard.
Tube cutters and screw stocks - - -	1527	3rd June 1865	Charles Taylor.
Turbines - - - - - - -	1534	5th June 1865	Thomas Gentle. Joseph Allmark.
Multitubular hot water boilers - - -	1614	14th June 1865	Henry Ormson.
Clay tobacco pipes - - - - -	1683	23rd June 1865	Lesley White.
An improved brewers' and distillers' refrigerator or apparatus for cooling liquids, condensing steam or other vapours.	1700	26th June 1865	Morris Ashby.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PIPES, &c.— *continued.*			
Pneumatic ways for the transmission of letters, merchandize and passengers. (*Communicated by Elias Parkman Needham.*)	2537	3rd Oct. 1865	William Edward Newton.
Machinery for shaping metal and other substances - (*tubes.*)	2552	5th Oct. 1865	Hesketh Hughes.
An improved composition or material to be employed in waterproofing or rendering woven fabrics impervious to moisture. (*hose pipes.*)	2568	6th Oct. 1865	Henry Francis Smith.
Tanning or treating hides applicable for machine bands and other purposes. (*for hose pipes.*)	2591	7th Oct. 1865	William Harris.
Improvements in apparatus for the regulation of the up and down currents of air, and for the prevention and cure of smoky chimneys.	2602	10th Oct. 1865	William Cooke.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating canvas pipes.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
An improved apparatus for forming or repairing the mouths of boiler and other tubes. (*Communicated by Edward Clark.*)	2697	19th Oct. 1865	George Reverdy Ghiselin.
Machinery for screening, tempering and moulding clays and earths into bricks, tiles and other articles. (*pipes.*)	2728	21st Oct. 1865	Isaac Roberts.
An improved mode of and apparatus for cleaning the tubes of steam-boilers. (*Communicated by Abraham Egenton.*)	2761	26th Oct. 1865	George Davies.
Certain improvements in apparatus employed in the manufacture and production of metallic pipes, tubes or other similar hollow castings. (*Communicated by Alfred Bertsch.*)	2804	31st Oct. 1865	Arthur Deslandes.
Improvements in steam hammers and in means of applying them to the manufacture of boilers and tubes.	2805	31st Oct. 1865	Charles Emmet.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating steam pipes.*)	2853	4th Nov. 1865	James Thys.
An improved apparatus for igniting cigars or tobacco.	2868	7th Nov. 1865	Hyde Bateman.
Stoves for drying moulds - - - - (*for making pipes.*)	2943	15th Nov. 1865	Henry Cochrane.
Improvements in cocks for steam, water, air and gases at high pressures, and also in gauge cocks and water gauges for boilers, and sediment tubes for cocks and pipes.	2990	21st Nov. 1865	Samuel Bennett.
A combined adjustable spanner, tube cutter, and pipe wrench. (*Communicated by Henry Ilitchings Baragwanath and Martin Van Wisker*).	3036	27th Nov. 1865	John Phillips Baragwanath.
"Top rollers" employed in the manufacture of fibrous substances. (*india-rubber tubes as roller covers.*)	3073	30th Nov. 1865	John Kerfoot.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PISTONS, &c.—*continued.*			
Steam-engines	166	19th Jan. 1865	William Cleveland Hicks.
Packing for steam joints, stuffing boxes, pistons and the like.	217	26th Jan. 1865	William Paton.
An improved packing for piston and other rods (*Communicated by William Bolivar Davis.*)	647	8th March 1865	Francis Wise.
Certain improvements in metallic pistons	1059	13th April 1865	Seth Dawson. John Burgess. John Wilson.
Cushions for steam cylinders (*Communicated by Henry Johnson.*)	1079	18th April 1865	Frederick Collier Bakewell.
An improved packing for steam cylinders, stuffing boxes and closed vessels containing water, air, or gases and for other similar purposes. (*Communicated by Frederic Henry Brinkmann and Ernest Frederic Wackwitz, the younger.*)	1112	21st April 1865	Edward Thomas Hughes.
Improvements in steering ships or vessels, and in the machinery or apparatus connected therewith.	1157	25th April 1865	William Elder.
Mode of and apparatus for obtaining and applying motive-power	1303	10th May 1865	Stanilas Pokutynski. Michel Mycielski.
An improvement in atmospheric forging hammers (*packing for piston rod.*)	1380	19th May 1865	Edward Augustus Raymond.
Caloric or heated air engines (*Communicated by Cyrus W. Baldwin and Walter Davis Richards.*)	1563	8th June 1865	Samuel Blatchford Tucker.
Locomotive engines (*lubricating the pistons.*) (*Communicated by Auguste De Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Construction of valves for steam and other engines (*Communicated by Thomas Shrimton Davis.*)	1913	22nd July 1865	William Edward Newton.
Fire-engines and hydraulic machines	1953	28th July 1865	Leon Paul Laroche.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Certain improvements in steam-engines and valves (*Communicated by George Ichabod Washburn.*)	2286	6th Sept. 1865	William Clark.
An improved construction of engine which can be used either as a motor or for pumping. (*Communicated by John Benjamin Root and William Benjamin.*)	2453	25th Sept. 1865	William Edward Newton.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for tightening packing rings of pistons.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Double or single action pumps (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
Improvements in and applicable to slide valves, pistons, and glands	2700	19th Oct. 1865	Thomas Adams. George John Parson.
A new or improved method of preventing the escape of heat from steam cylinders (*covering pistons with wood.*)	3051	28th Nov. 1865	William Simons. Andrew Brown.
Pistons (*Communicated by David Lister.*)	3279	19th Dec. 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PLANTS, &c.—*continued.*			
Manufacture of paper from marine vegetable matters. (*Communicated by Pierre Ernest Gégnon and Charles Marie Gagnage.*)	2741	23rd Oct. 1865	William Clark.
Treating vegetable fibres used in the manufacture of paper and other similar substances made from pulp. (*Communicated by Louis Horst.*)	2882	8th Nov. 1865	Godfrey Anthony Ermen.
Improvements in the process of treating materials for the manufacture of paper and other similar textile fabrics, and in apparatus for the same. (*Communicated by Robert Hanham Collyer.*)	3067	29th Nov. 1865	Charles Stuart Baker.
An improved method in the production of fibre from various fibrous plants and animal products.	3112	4th Dec. 1865	James Steart.
A new or improved method of preparing esparto, alpha or mogador grasses or other similar vegetable substances, for spinning, weaving, and for substitution for hair and for other fibres now in use.	3156	8th Dec. 1865	Oliver Maggs. George Hedgecombe Smith.
A new method of preparing plants of the Eucalyptus family and Myrtacean plants, and the application thereof to the purposes of tobacco and snuff. (*Communicated by Prosper Vincent Ramel.*)	3174	9th Dec. 1865	Richard Archibald Brooman.
The manufacture of pulp from "Lygeum Spartum" (*Communicated by Antonio Escubos.*)	3219	13th Dec. 1865	Richard Archibald Brooman.
Improved apparatus for manufacturing paper pulp -	3245	14th Dec. 1865	William Alfred West.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes. (*French willow.*)	3318	22nd Dec. 1865	John Alexander Cooper.
See also "FIBRES."			
PLATES, DISHES, CUPS AND SAUCERS; TOAST RACKS, CRUET FRAMES.			
A new or improved invalid or siphon drinking cup -	437	15th Feb. 1865	Robert Henry Emerson.
An improved method and machinery for the manufacture of various articles in pottery, earthenware or porcelain, by mechanical process. (*plates, cups, &c.*) (*Communicated by Edme Mercier.*)	453	17th Feb. 1865	William Edward Gedge.
Improvements in wine glasses and in stands or holders for the same.	693	11th March 1865	James Murdoch Napier.
Construction of toast racks - - - -	694	11th March 1865	George Carter.
An improved method in the manufacture of toast racks - - - - - - -	811	23rd March 1865	John Burley. Laurance Glover.
An improvement or improvements in ornamenting articles made of glass. (*circular dishes.*)	868	28th March 1865	Joseph Williams.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PLOUGHING, &c.—*continued.*			
An improved rotary spader or digging machine for tilling land. (*Communicated by Cicero Comstock.*)	671	10th March 1865	Edwin Addison Phillips.
An improved agricultural implement - -	675	10th March 1865	George Wright.
Harrows, drags, cultivators, and other similar implements to be used in the cultivation of the soil.	739	16th March 1865	Joseph Seaman.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Improved apparatus applicable to steam cultivation	956	4th April 1865	William Bulstrode.
Manufacture of harrows, cultivators and other similar agricultural implements.	978	6th April 1865	John Badger.
Manufacture of plough-shares, socks or points for ploughs, cultivators or scurrifurrows, and other implements used in the cultivation of the land where these points are used or required - -	996	7th April 1865	William Gray. Edward Gray. John Gray.
Machinery for cultivating land - - - (*Partly communicated by Max Eyth.*)	1104	20th April 1865	David Greig.
Engines, machinery and implements employed in ploughing and tilling land.	1123	21st April 1865	Collinson Hall.
Digging machinery - - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
Improvements in motive power machinery for cultivating land, part of which improvements is applicable to driving machinery generally -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Ploughs - - - - - - -	1246	4th May 1865	John Stalkartt.
An improved method of and apparatus for laying single line articulated railways, and a method of propelling thereon, particularly applicable for agricultural purposes.	1321	12th May 1865	Richard Winder.
Ploughs - - - - - - -	1326	12th May 1865	John Eddy.
Horse hoes and drills - - - - -	1569	9th June 1865	James Holmes. George Thomas Holmes. Frederick Robert Holmes.
An improved method of propelling agricultural implements.	1618	15th June 1865	Virgile Poitevin.
Means of and apparatus for raising water for agricultural and other useful and ornamental purposes. (*washing-troughs.*) (*Communicated by Jean Louis Celestin Achard.*)	1918	22nd July 1865	William Edward Gedge.
Preparation of soils to promote general vegetation -	1935	26th July 1865	Thomas Spencer.
Improvements in and apparatus for treating peat in bogs and obtaining it therefrom, also applicable to tilling and cultivating land.	2004	2nd Aug. 1865	Charles Hodgson.
Traction engines and other vehicles - - (*for ploughing.*)	2234	30th Aug. 1865	Samuel Lawrence James.
An improved implement for cultivating or tilling land - - - - - - -	2235	30th Aug. 1865	Samuel Gilbert. Samuel Gilbert the younger.
Manufacture of harrows, cultivators and other similar agricultural implements - - -	2331	12th Sept. 1865	John Badger. John Henry Steff.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating agricultural implements.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESERVING WOOD, &c.—*continued.*			
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes. (*making preservative compositions for wood, metal, &c.*)	2025	4th Aug. 1865	Frederick George Mulholland.
A new composition suitable for use as paint and protective coating. (*Communicated by William Potter.*)	2163	22nd Aug. 1865	John Gilbert Avery.
Manufacture of flexible tubing or hose - - - (*preserving intestines.*) (*Communicated by David Knight Hoxsie and Thomas Lyons Reed.*)	2315	9th Sept. 1865	George Tomlinson Bousfield.
Improved means for rendering leather more durable and flexible - - - - - -	2357	15th Sept. 1865	Louis Gustave Sourzac. Louis Bombail.
Rendering wood for building and other purposes non-combustible or non-inflammable.	2625	11th Oct. 1865	William Bull.
A certain composition having anti-corrosive and anti-fouling properties, for the preservation of and keeping clean the bottoms of iron vessels, and also for the preservation of iron submerged and iron structures exposed to the action of the atmosphere or water - - - - -	2653	14th Oct. 1865	William Jardine Combe Mac Millan. James Mason. John Vickers Scarborough.
Making amalgams or alloys of metals - - (*preserving from moisture.*) (*Communicated by Henry Wurtz.*)	2903	11th Nov. 1865	William Edward Newton.
PRESERVING AND PREPARING ARTICLES OF FOOD, CUTTING SUET, PEELING POTATOES, DRESSING FRUIT, SHELLING PEAS, STONING RAISINS.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - - - (*for ice safes and wine coolers.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
A new or improved method of keeping the substance of eggs fresh and sweet.	47	6th Jan. 1865	Walter Christopher Thurgar.
Preserving meat - - - - - -	79	10th Jan. 1865	Thomas Bowerman Belgrave.
Mode of and means for preserving fruit and other eatables. (*Communicated by Benjamin Markley Nyce.*)	207	24th Jan. 1865	George Haseltine.
Apparatus called ice safes - - - - -	230	26th Jan. 1865	Charles Falck.
Certain improvements in machinery for dressing fruit.	502	22nd Feb. 1865	David Barr.
An improvement in air-tight jars for preserving eggs and fruits and such like articles of food.	546	27th Feb. 1865	George Kennedy Geyelin.

Subject-matter of Patent.
PRESERVING FOOD, &c.—*conti*
An improved method of preserving meat (*Communicated by Hubert Felix Méres*
Improvements in securing low and uni peratures, applicable to public and priv ings, also to refrigerators, coolers and c and to ships and other vessels, and in ratus employed therein. (*for preserving food.*) (*Communicated by Daniel Somes.*)
A new or improved machine for peeling o almonds.
An apparatus for cutting bread or bread
An improved domestic implement for pa toes, apples and other like vegetables a
An improvement in paints or composition coating iron or wooden vessels, and o tures exposed to the action of sea wate
Machines for cutting or mincing meat, other substances.
An improved apparatus for shelling peas stoning fruit and other similar purpose
Treating rice and other grain for the m of starch, also to prepare them for us and for other purposes.
Manufacture of wire gauze dish covers, pla window blinds, fire guards, and meat s
Apparatus used when boiling milk -
An improved mode of desiccating eggs ratus for effecting the same.
Obtaining jellies, syrups, drinks and othe from the tree Arbutus Unedo, kno Arbutus. (*and jams.*)
Apparatus for stoning raisins -
Cooling bacon-curing rooms or chambers
Certain improvements in machinery for mincing meat and stuffing the same in intestines, for forming sausages. (*Communicated by Purches Miles.*)
Construction of vessels for preserving liquids.
Improvements in treating meat and in products therefrom.
Preparation of meat for food - -
Improvements in preserving provisions apparatus connected therewith.
Preservation of meat and the concentr juices.
Preserving meat and other articles for fo
Improvements in preserving animal an substances, and in means or apparatu therein.
An improved machine or apparatus for dressing currants and other fruits.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESERVING FOOD, &c. — *continued.*			
An improved trap or liquid sealing to the covers of cisterns, pans, jars, tubs and other vessels or chambers - - - - - - - (*for preserving meat, &c.*)	2986	20th Nov. 1865	George Putland Hemming. Henry Coyle.
Improvements in the preservation of animal substances, such improvements being especially useful when these substances are intended for use as food.	3009	23rd Nov. 1865	Theophilus Redwood.
Mode of and means for preserving fruit and other perishable substances. (*Communicated by Benjamin Markley Nyce.*)	3043	27th Nov. 1865	William Robert Lake.
An improved machine for dressing, sifting, cleaning and polishing fruit, coffee, grain and other matter, parts of which are applicable to coffee sifting, roasting, cooling and cleaning, and other purposes.	3133	6th Dec. 1865	Edwin Whele.
An improved method of and apparatus for making mortars, bowls, spill pots, jelly cans, galvanic troughs and other similar articles - - -	3159	8th Dec. 1865	William Boulton. Joseph Worthington.
An improved mode of preserving animal and vegetable substances. (*Communicated by Francis Stabler.*)	3172	9th Dec. 1865	Alfred Vincent Newton.
A new and improved compound to be employed as a drinking beverage. (*Communicated by Eduard Dorn.*)	3203	12th Dec. 1865	Joachim Kaspary.
Improvements in the treatment of animals intended for human food, and in the preservation of meat.	3293	20th Dec. 1865	John Gamgee.
PRESSES, COMPRESSING, PACKING.			
Improvements in producing and finishing photographs and photographic transparencies on paper and other suitable substances, and in the machinery employed therein - - -	56	7th Jan. 1865	Barrowclough Wright Bentley. William Henry Bailey.
Machinery for the manufacture of "cavendish," "negrohead" and other tobacco.	68	9th Jan. 1865	William Davies.
Machinery or apparatus for the manufacture of compressed bricks.	77	10th Jan. 1865	Humphrey Chamberlain.
Machinery for pressing and cutting tobacco - - (*Communicated by William Woodman Huse.*)	123	14th Jan. 1865	Alfred Vincent Newton.
Presses for the expression of fluids from substances containing the same.	134	16th Jan. 1865	John Marshall.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydraulic presses.	155	18th Jan. 1865	William Robert Foster.
Facing woollen cloth and other textile fabrics -	178	20th Jan. 1865	John Snell. William Renton.
Fly or embossing presses - - - - -	208	24th Jan. 1865	James Bailey.
Machinery or apparatus for folding fabrics on to cardboards, for the purpose of hot pressing.	278	1st Feb. 1865	Arthur Freeman.

Subject-matter of Patent.
PRESSES, &c.—*continued.*
Improvements in the manufacture of ordn other like castings and in the appar ployed therein, also in carriages or n the same. (*cylinders of hydraulic presses.*) (*Communicated by William Jones.*)
Improvements in the ventilation of pres heated by gas, and for preventing the tion of the vapour in the tubes or flu therefrom.
Hydraulic presses - - -
Machinery for making and pressing brick
Apparatus for extracting liquid from stances. (*Communicated by Lyman Smith.*)
Certain improvements in hydraulic pum nection with engines of motive-power.
Presses for blocking the tyres of railway wheels.
Hooping or binding bales - -
Certain improvements in the method o the extremities of bands or hoops used bales, and in the means employed for pose. (*Communicated by Edward Taylor Bel*
Improvements in securing low and un peratures, applicable to public and pri ings, also to refrigerators, coolers and and to ships and other vessels, and in ratus employed therein. (*for packing-houses.*) (*Communicated by Daniel Somes.*)
Presses for cotton and wool -
Vessels or apparatus for melting sealin or other substances. (*for sealing packets.*) (*Communicated by Frederick Kührman*
Improvements in steam and atmospheri and presses, which improvements are able to steam-engines.
Improved apparatus for expressing li pulpy and semi-fluid substances. (*Communicated by Louis Pierre Rober*
Machinery for finishing yarns or threads
Machinery for folding fabrics for pressin
Improvements in embossing presses to f operation of relief coloring on enve paper and other similar articles of stat
Hydraulic presses for compressing cotto substances - - -
Certain improvements in hydraulic p packing cotton and other material stances, and in the boxes for cont same.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESSES, &c.—*continued.*			
Presses used for pressing cotton, wool, hay and fibrous materials.	1423	24th May 1865	George Ashcroft.
An improved plain or graduated gophering or puffing and pressing machine - - -	1444	26th May 1865	Charles Cotton. Francis Anderson. Daniel Booker.
A new or improved artificial fiuel - - - (*compressing coal dust for fuel.*)	1600	13th June 1865	Charles James Collins.
Improvements in the manufacture of paper and paper stock, and in the utilization of certain waste products resulting therefrom - -	1602	13th June 1865	Thomas Routledge. William Henry Richardson.
Improved machinery for compressing and solidifying coal and other analagous substances.	1606	14th June 1865	Henry George Fairburn.
Copying presses - - - - -	1624	15th June 1865	Phineas Lawrence. George Jefferys.
Improvements in envelopes or wrappers for covering, packing and protecting bottles, jars or other fragile articles, and in apparatus for manufacturing the same.	1650	20th June 1865	George Clark.
An improved hydraulic apparatus for producing motive-power.	1701	26th June 1865	Josse Egide Spanoghe.
An improved pulping and compressing machine, for the treatment of peat as a fuel, and gas for illuminating purposes - - - -	1703	26th June 1865	Charles Worssam. George Evans.
Circular pressing machines for finishing woven fabrics.	1717	28th June 1865	William Ingham.
Improvements in the preparation of amalgams of quicksilver or mercury, and in the application of such amalgams to various purposes in the arts. (*packing and transporting quicksilver.*) (*Communicated by Henry Wurtz.*)	1719	28th June 1865	William Edward Newton.
An improved mode of pressing and moulding clay, sand, or cement, for making bricks and for other purposes. (*Communicated by John Steele.*)	1748	1st July 1865	William Robert Lake.
Presses - - - - - - (*Communicated by Charles Hughes.*)	1859	15th July 1865	William Hughes.
Machinery or apparatus for folding fabrics on to cardboards or metallic plates, for the purpose of hot pressing - - - - -	1909	21st July 1865	William Speakman Yates. Arthur Freeman.
An improved cotton press - - - -	1916	22nd July 1865	Samuel Boyd.
Packing cases or boxes for holding or packing bottles or bottled liquids - - -	2141	18th Aug. 1865	John Hope.
Improvements in lithographic and copper plate printing, and in the machinery or apparatus connected therewith.	2170	23rd Aug. 1865	Donald M'Kellar.
Copying presses for copying letters and other written documents.	2186	25th Aug. 1865	George Owen.
Construction of presses for the compression of elastic substances. (*Communicated by Joseph Wohl.*)	2205	28th Aug. 1865	Henri Adrien Bonneville.
Construction of hydrostatic presses - -	2304	8th Sept. 1865	John Weems. William Weems.

Subject-matter of Patent.
PRESSES, &C.—*continue*
Improvements in the manufacture of br flue covers and tiles, and in the ma apparatus employed therefor. (*by compression.*)
Hydraulic pressure engines -
Presses worked by steam and hydraulic
Construction of presses for hay, cotton other substances. (*Communicated by Thomas Gannon Bolton Webster.*)
Tools for securing tubes in tube plat other purposes where concentrated pr justment is necessary. (*for moving stamps for compressing.*)
A new composition of indian-rubber cement, made in a more or less flu cording to the use to be made of it, a cess or contrivance for applying the sa (*cover for packing goods.*)
Improvements in hydraulic presses and ratus connected therewith -
Cotton presses - - - (*Communicated by Samuel Boyd.*)
Improvements in calendering and finis fabrics, and in apparatus employed th
Driving or actuating machinery - (*printing presses.*)
Packing and labelling bottles, jars and articles.
Improvements in machinery for compres wool and other materials, for the transit, which said improvements m larly relate to the more expeditious fi box of the press and fastenings for ba
Making amalgams or alloys of metals (*packing by pouring into quicksilver*) (*Communicated by Henry Wurtz.*)
Apparatus for raising, lowering and m bodies, and for transmitting and arre for various purposes. (*actuating presses.*)
A new or improved press for pressi clothes, table linen, and various ot manufactured articles and substanc pressure.
Waterproof linings of cases, boxes, an in which articles are desired to be pr proof.
Improved machinery for compressing an coal, clay and other analogous substa
Machinery for raising or forming artic metal. (*Communicated by Mellen Bray.*)

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRESSES, &c.—*continued.*			
An improved cotton bale tie or hoop lock - - (*Communicated by Edward Victor Fassman.*)	3361	28th Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*ropes for packing-cases.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
PRINTING AND TRANSFERRING; TYPE AND OTHER SURFACES FOR PRINTING; COMPOSING AND DISTRIBUTING TYPE.			
Improvements in producing and finishing photographs and photographic transparencies on paper and other suitable substances, and in the machinery employed therein - - - -	56	7th Jan. 1865	Barrowclough Wright Bentley. William Henry Bailey.
Coloring kempy wool and hair - - -	227	26th Jan. 1865	Henry William Ripley.
A new typographic ink - - - -	330	6th Feb. 1865	Anatole Auguste Hulot.
Improvements in colour printing and in apparatus connected therewith.	721	14th March 1865	Isham Baggs.
Preparing, fixing and mordanting cloth and yarns -	762	18th March 1865	Thomas Kenyon the younger.
Dyeing and printing cotton or linen fabrics or yarns.	804	22nd March 1865	Alfred Paraf.
Engraving on metal - - - - - (*for printing on stuffs, paper, &c.*) (*Communicated by Narcisse Guilbot and Pierre Heritier.*)	807	22nd March 1865	Richard Archibald Brooman.
Machinery or apparatus for feeding paper to printing machines, and for taking off or removing and piling the same after printing - -	812	23rd March 1865	Edward Field. Francis Wise.
Improvements relating to apparatus for printing ornamental fabrics - - - -	870	28th March 1865	James Millar. John Laing.
An improved manufacture of inking rollers - - (*Communicated by Lewis Francis and Cyrus Loutrel.*)	914	31st March 1865	Alfred Vincent Newton.
Certain improvements in dyeing or printing upon the fabric known as "sail cloth."	1006	8th April 1865	James Isherwood.
Means of ornamenting linen cuffs and collars -	1010	8th April 1865	Joseph Debnam.
Printing machinery - - - - -	1026	11th April 1865	David Payne.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*for coating rollers.*) (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - -	1117	21st April 1865	William Scarratt. William Dean.
Improved means or apparatus for printing felts, floor cloths, carpets and woven fabrics.	1155	25th April 1865	John Wilkinson the younger.

Subject-matter
PRINTING, &c.
Manufacture of flock fabric (*printing, &c.*) (*Communicated by The Cloth Company.*)
An improved manufacture ((*Communicated by The Cloth Company.*)
Improvements in embossin operation of relief colori paper and other similar a
Paper hangings -
Machinery for distributing
Manufacture or treatment (percha, or compounds t production of stereotype
Certain improvements in n distributing printing typ (*Communicated by Abiel Low, Edward Hutc Charles Frederick La Richards and Charles*
Machines for dressing and
Ornamenting candles (*transferring designs.*)
Improvements in the mea ducing lithographic im apparatus connected the
Printing-machines -
Stamping or signing lette
Improvements in the tre materials with which th in the manufacture of ware and other like w or decorating china, p other like wares.
Calico and linen printing
Applying coal-tar colors t
Improvements in ornam and in machinery or ap
An improved process for faces - -
An improved hand st numerals and other figu
An improved photo-electr (*Communicated by W George Edward De*
Certain improvements in duction of chromate employed in dyeing an

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRINTING, &c.—*continued.*			
Apparatus for printing wool, worsted, or other fibrous materials.	1580	10th June 1865	John Henderson.
Improvements in the manufacture of naphthalic acid and chloroxynapthalic acid, and in dyeing and printing - - - - -	1605	13th July 1865	François Alexandre Laurent. John Casthelas.
Apparatus for typographic and lithographic printing (*Communicated by Auguste Hippolyte Marinoni and François Noël Chaudré.*)	1665	21st June 1865	William Clark.
Apparatus for polishing, smoothing or facing, especially applicable to lithographic stones.	1668	21st June 1865	Charles Henry Gardner.
An improved composition for the manufacture of printers' rollers.	1694	24th June 1865	Frederic Germain David.
Machinery for printing in colors - - - (*Communicated by Martin Moeglen.*)	1702	26th June 1865	Richard Archibald Brooman.
Printing threads employed in weaving - - - (*Communicated by Stanislas Vigoureux.*)	1730	29th June 1865	Richard Archibald Brooman.
An improved combination of materials for the manufacture of carpets, floor cloths, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes - (*elastic printing rollers.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Improvements in the production of printing surfaces by photographic agency, and in obtaining prints therefrom.	1791	6th July 1865	Joseph Wilson Swan.
Apparatus for "setting up" or composing type for printing - - - - -	1845	13th July 1865	Alexander Mackie. James Procter Jones.
Mandrils for rollers such as are used for printing or embossing - - - - -	1850	14th July 1865	David Fulton. John Fulton.
Certain improvements in envelope machines - (*Communicated by Thomas Veazie Waymoth, Henry Clay Berlin and George Jones.*)	1896	20th July 1865	Alfred Vincent Newton.
An improved system of manufacturing salts, sulphates and acetates of chrome, and of applying them as mordants, in dyeing and printing textile substances both animal and vegetable.	1905	21st July 1865	Jean Henri Chaudet.
Instruments for marking or impressing railway tickets.	1948	27th July 1865	Russell Mortimer.
Machinery for printing in colors - - -	1978	31st July 1865	Augustus Applegath.
Checking or controlling the payment of fares in cabs and other public vehicles. (*Communicated by Léon Becker and Joseph Leib.*)	2029	4th Aug. 1865	Henri Adrien Bonneville.
Improvements in the ornamentation of glass and in the applications of glass so ornamented. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	2038	5th Aug. 1865	John Henry Johnson.
Printing and dyeing yarns and fabrics of cotton or other vegetable materials - - - -	2053	8th Aug. 1865	James Buchan, jun^{r}. Robert Boyd.
Printing-machines - - - - -	2056	8th Aug. 1865	William Rock.
Production of violet colours from magenta, for dyeing and printing.	2070	9th Aug. 1865	Ludwig Schad.
Treating and printing threads employed in weaving (*Communicated by Stanislas Vigoureux.*)	2083	11th Aug. 1865	Richard Archibald Brooman.
Production of surfaces by means of photography - (*printing surfaces.*) (*Communicated by Henry Avet.*)	2110	15th Aug. 1865	Michael Henry.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PRINTING, &c.—*continued.*			
Improvements in and adaptation of cylinder printing machines to the double purpose of letter press and lithography, also a new mode of damping litho stones, and a new mode of registering and pointing in such machines.	2999	22nd Nov. 1865	Thomas William Nicholson.
Machinery or apparatus for stamping or impressing railway or other tickets. (*see* "STAMPS.")	3005	22nd Nov. 1865	Alfred Lancefield.
An improved mode of obtaining printing surfaces by photography. (*Communicated by Frederick Von Egloffstein.*)	3053	28th Nov. 1865	Alfred Vincent Newton.
Treatment of matter for dyeing and printing - -	3069	30th Nov. 1865	Alexander Campbell Duncan.
An improved mode of applying photographic paper pictures to glass. (*producing transparencies.*)	3092	2nd Dec. 1865	Anna Josephine Wright.
Certain improvements in machinery or apparatus for "composing" or setting type, and also "distributing" type.	3104	4th Dec. 1865	Alexander Mackie.
Dyeing, printing and other operations based on chemical reactions. (*Communicated by Mathias Paraf-Javal.*)	3110	4th Dec. 1865	Richard Archibald Brooman.
A new method of and apparatus for regulating the tension of threads in weaving and other operations. (*printing.*) (*Communicated by Stanislas Vigoureux.*)	3236	14th Dec. 1865	Richard Archibald Brooman.
Manufacture of stays or corsets - - - (*of printed fabric.*)	3238	14th Dec. 1865	William Pretty.
Manufacture of bed quilts, table and toilet covers - (*printing.*)	3255	16th Dec. 1865	Thomas Jones. Joseph Buckley.
Dyeing and printing - - - - -	3280	19th Dec. 1865	Louis Durand.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*for printers' inking rollers.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
For Engraving Cylinders, *see* "ENGRAVING." For Telegraphic Printing, *see* "TELEGRAPHS." For Printing-colours, *see* "DYES."			
PROPELLING, DRIVING, WORKING; TRANSMITTING POWER AND MOTION; CONVERTING MOVEMENTS.			
I.—Propelling Ships; Locomotion on Water; Propellers, Paddle Wheels and Screws.			
Apparatus for propelling vessels - - -	29	5th Jan. 1865	William Watson.
Apparatus for transmitting and converting reciprocating motion into rotary motion applicable to various useful purposes.	145	17th Jan. 1865	William John Cunningham.

Subject-matter of Patent.

PROPELLING, &c.—*continued.*

Improvements in oars and in the modes of actuati them.

Machinery for propelling vessels - -

Improved machinery or apparatus for propelli boats, ships, vessels or other floating craft a objects.

Construction, arrangement and mode of apply paddle wheels for propelling boats or other vess (*Communicated by Hippolyte Salmon.*)

An improved screw propeller and an impro application of the motive-power to the propell of boats and steam ships, applicable also to o purposes.
(*Communicated by Christopher Edward Damp*

Side propellers for ocean and river vessels -

Dredgers - - - - -
(*propelling.*)

Improvements in paddle wheels, parts of which applicable to other purposes.

A new method of obtaining and applying wat a motive-power for propelling ships, boats other vessels.

Apparatus for feeding boilers, raising water propelling vessels.
(*Communicated by Pierre Samain.*)

Construction of ships or vessels or cars to flo water.

Screw propelling apparatus - -

Paddle wheel propellers adapted for prope vessels in water.

Propelling vessels - - - -

Apparatus for receiving the thrust of screw prope and other revolving shafts - -

Paddle wheels - - - -
(*Communicated by Matthew Augustus Crook*

Apparatus for propelling and steering vessels

Propelling vessels - - -

Propellers for ships and other vessels -

Oars, paddles, rowlocks, seats and fittings for l and vessels.

Apparatus for propelling ships and other vessel

Motive-power by capillary attraction -

Apparatus for propelling vessels - -

Improvements in the propulsion of ships ar machinery or apparatus connected therewith
(*Communicated by Thomas Craig.*)

Apparatus for obtaining and applying mot power to various useful purposes -

Apparatus for propelling vessels - -
(*Communicated by Ambroise Raphin.*)

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Propellers for ships and boats	2258	1st Sept. 1865	Richard Davies.
Paddle wheel propellers	2374	18th Sept. 1865	Angelo James Sedley.
An improved feathering paddle-wheel	2380	18th Sept. 1865	George Augustus Keene.
Propelling vessels	2418	22nd Sept. 1865	Robert Atkin.
Feathering paddles and oars	2434	23rd Sept. 1865	William John Macquorn Rankine.
An improved construction of paddle wheel (*Communicated by Ephraim Chidester M'Comb.*)	2481	27th Sept 1865	James Jennings M'Comb.
Improvements in propelling vehicles and ships, and in apparatus for the same.	2493	28th Sept. 1865	Daniel Spink.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor.	2563	5th Oct. 1865	Robert William Fraser.
Apparatus for propelling vessels (*Communicated by Cléanthe St. Coumbary.*)	2601	9th Oct. 1865	William Clark.
A new method of obtaining and applying water as a motive-power, for propelling ships by means of paddle wheels, inside and outside.	2641	13th Oct. 1865	George Rosselet.
Obtaining sliding surfaces by the interposition and circulation of a liquid or gaseous fluid between the frictional surfaces. (*screw bearings.*)	2729	21st Oct. 1865	Louis Dominique Girard.
Transmitting motion to propelling shafts (*Communicated by James Buchanan Eads.*)	2807	31st Oct. 1865	William Edward Newton.
Apparatus for feathering the paddles of propellers for navigable vessels	2944	15th Nov. 1865	James Goodier. John Foster Kilshaw.
Improvements in the hulls and tackle of navigable vessels, and in the gear for propelling the same by wind and steam or other motive-power engine, and clearing the same from water, and in apparatus connected therewith to enable the said vessels to be converted in floating graving docks, or lifts for raising vessels and other submerged or partially submerged heavy bodies to or above the surface of the water.	3031	25th Nov. 1865	John Ferrier.
Construction of ocean steamers and paddle wheels for propelling the same, which paddle wheels are also applicable to the propulsion of other steam vessels.	3090	2nd Dec. 1865	Isaac Merritt Singer.
Turbines for obtaining motive-power, applicable also to raising and forcing fluids, and to propelling ships or vessels. (*Communicated by Joseph Denis Farcot, Jean Joseph Léon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Chateau and Emmanuel Denis Farcot.*)	3222	13th Dec. 1865	William Brookes.
Apparatus for propelling vessels (*Communicated by George William Smith.*)	3232	14th Dec. 1865	John Smith Watson.
Improvements in propellers for ships and vessels, parts of which are applicable to windmill sails and fan blowers	3295	20th Dec. 1865	Frederick Lamb Hancock. Charles Lamb Hancock.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required.	3314	22nd Dec. 1865	Edward Deane.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Apparatus for obtaining and applying motive-power to various useful purposes - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Improvements in propelling vehicles and ships, and in apparatus for the same.	2493	28th Sept. 1865	Daniel Spink.
Machinery or apparatus for preparing and supplying food for cattle. (*moving the waggon.*)	2514	30th Sept. 1865	Robert Willacy.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Carriages propelled by manual power - -	2623	11th Oct. 1865	Thomas Du Boulay.
A new appliance of an electro-magnetic apparatus to increase the adherence of locomotive engine wheels to the rails.	2977	20th Nov. 1865	Angelo Vescovali.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.
Boilers or apparatus for generating steam - - (*for road steam-carriages.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
XIX.—Driving Machinery, Ploughs and Pumps; Feed Motions, Guides, Adjustments and Traversers; Transmitting Power and Motion; Cranks and Gearing.			
Sewing-machines and apparatus belonging thereto -	2	2nd Jan. 1865	Thomas Antoney Macaulay.
Machinery for smoothing or finishing paper -	8	2nd Jan. 1865	James Roger Crompton.
Manufacturing paper - - - - (*Communicated by Jules Joseph Manecy.*)	15	3rd Jan. 1865	Leopold D'Aubréville.
Drilling apparatus for hand or steam power, adaptable also as a vice and for lifting purposes -	18	3rd Jan. 1865	George Hodgson. James Pitt.
Certain improvements in mules for spinning -	21	4th Jan. 1865	John Knowles. James Banks.
Certain improvements in sewing-machines and mechanism for driving the same. (*Communicated by Jacob Zuckerman.*)	36	5th Jan. 1865	Alfred Vincent Newton.
Jack and slubbing frames - - -	63	9th Jan. 1865	Ashworth Barlow.
Improvements in steam hammers and in apparatus employed in combination with steam hammers.	89	11th Jan. 1865	John Ramsbottom.
Machinery for opening and carding cotton and other fibrous materials.	90	11th Jan. 1865	Robert Tempest.
Machinery or apparatus for cleaning and decorticating grain.	115	13th Jan. 1865	Wilson Ager.
Machinery for preparing, spinning, doubling and winding wool, mohair, alpaca, silk, flax, cotton or other fibrous substances - - -	130	16th Jan. 1865	Jabez Bunting Farrar. John Hirst.
Mules for spinning and doubling - - -	133	16th Jan. 1865	William Rowbottom.
Improvements in driving rolls for rolling metals, and in apparatus employed therein. (*Communicated by Antoine François Marrel.*)	135	16th Jan. 1865	Richard Archibald Brooman.
Machinery or apparatus for planing and moulding or otherwise shaping wood - - -	143	17th Jan. 1865	John Robinson. John Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—continued.			
Pumps and apparatus for working the same	436	15th Feb. 1865	George Tyrrill Humphris
Shearing wrenches (Communicated by Pierre Augustin Sennet.)	457	17th Feb. 1865	William Clark.
Machinery for sewing or uniting leather and other hard substances, particularly applicable to the manufacture of boots and shoes.	494	21st Feb. 1865	Charles Bamlett.
An improved apparatus for shearing and barbing all sorts of woven fabrics. (Communicated by Charles Hemidge Jean Pierre Thomas and Jean Chapuis.)	517	24th Feb. 1865	William Edward Gedge.
Machinery for sawing wood	533	24th Feb. 1865	Samuel William Warner.
Sewing-machines	537	24th Feb. 1865	William Wenner.
Sewing-machines	551	27th Feb. 1865	Robert Bunday.
Machinery for making nail and other substances (Communicated by William Adam Brown and Robert A. Fyfe.)	558	28th Feb. 1865	George Lumley.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus employed therein (Partly a communication.)	563	28th Feb. 1865	David Chadwick.
An improved machine for punching or drawing down rivets' shanks and which said improved machine is also applicable for cutting or drawing down the shanks of railway spikes and other articles of iron and steel.	575	1st March 1865	Moses Hughes.
Sewing machines	576	1st March 1865	Nicholas Hammond.
Wires for spinning and doubling	577	1st March 1865	John Dodd.
Apparatus for [illegible] and extracting coals by means of other power (Partly a communication.)	592	3rd March 1865	James Spence.
Rowing attachments to sewing-machines	601	4th March 1865	Henry Freeman Clifton, and James Hollaway.
An improved machine for slitting, &c. or other [illegible] by means of one fixed and [illegible] saw.	602	4th March 1865	Thomas Turton.
Improvements in machinery for [illegible] and apparatus for [illegible] which some part of apparatus for [illegible]	603	4th March 1865	Frederick William Turner.
[illegible]	607	4th March 1865	James Spence, and Samuel Hillhouse.
[illegible]	608	4th March 1865	James Hird, and Joshua Walker.
[illegible]	718	4th March 1865	Edward Bonney.
[illegible]	736	4th March 1865	[illegible] Bonnyman.
[illegible]	737	4th March 1865	James Turner, and Simon Smith.
[illegible]	744	4th March 1865	[illegible] Chandler.
[illegible]	746	4th March 1865	[illegible] Bonnyman.
[illegible]	748	4th March 1865	Solomon Sealy [illegible].

Subject-matter of Patent.
PROPELLING, &c.—*continued.*
Machinery for working puddled balls or b iron and steel.
Locomotive engines and carriages for comm and tramways, and also for agricultural s purposes.
Apparatus for cutting pasteboard and ot boards. (*Communicated by Elizur Ely Clarke.*)
Machinery for thrashing and rubbing bi other grain.
A new or improved machine for dressing an ing the inner surfaces of felloes.
Machinery and apparatus for indicating, and reading in such cords of designs or as are transferred and perforated on card or their substitutes, and for reproduc repeating duplicates of such operations materials, for jacquard machines.
Machinery for sewing and stitching
Sewing-machines - - -
Improvements in sewing-machines, which ments also involve or comprise a new manipulating the threads of the nee shuttle in forming the "lock-stitch."
Machines for planing and shaping metals
Improvements relating to apparatus for ornamental fabrics - - (*applying guides.*)
Forging machines - - -
Sewing-machines - - -
Cranes - - - -
File cutting machinery - - (*Communicated by Alfred Weed.*)
Improvements in machinery for the cutting brads or spikes, and in the conformation of such nails and spikes.
Certain improvements in machinery or ap used in carding cotton or other fibro stances - - - -
Improvements in wringing machines, parts are applicable to the construction of roll (*Communicated by Stephen Wing an Holly.*)
Looms for weaving - - -
An improved machine for rounding and shot, shell and other balls or spheres. (*Communicated by William Davis Wins*
Improvements in certain electric telegraph which invention is applicable to other p
Traction engines - - - (*driving gear.*)

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
Certain improvements in machinery or apparatus to be employed in preparing cotton and other fibrous substances for spinning.	990	7th April 1865	James Thompson.
Mechanism applicable to frame-filling machines for wooden matches, vestas and vesuvians.	1003	8th April 1865	Henry Joseph Simlick.
Electro magnetic engines - - - -	1012	8th April 1865	Siegmund Moore.
Machinery for cutting files - - - -	1013	8th April 1865	Thomas Turton.
Printing machinery - - - - -	1026	11th April 1865	David Payne.
Looms for weaving - - - -	1032	11th April 1865	Archibald Turner.
An improved application of rotating brushes to the grooming or cleaning of horses and other quadrupeds.	1038	12th April 1865	John Haworth.
An improved guide applicable to sewing-machines -	1047	12th April 1865	Frederic Bapty. Edward Brydges Sayers.
Machinery for folding fabrics for pressing - -	1057	13th April 1865	William Speakman Yates.
Certain improvements in looms for weaving - -	1061	13th April 1865	Christopher Turner. Thomas Room.
Apparatus for shaping corks - - - -	1065	15th April 1865	John M'Dowall.
Certain improvements in looms for weaving -	1070	17th April 1865	Mark Smith.
Rotatory aërial swings - - - -	1073	17th April 1865	James John Matthewson. Heinrich Louis Rudolph Schlee.
Apparatus for distilling hydrocarbons from coals, schists and other minerals.	1076	17th April 1865	Joseph Dougan.
Machines for cutting or mincing meat, suet and other substances.	1077	17th April 1865	Albert Ward Hale.
Manufacture of tin and terne plates - -	1081	18th April 1865	John Jones Jenkins.
An improved machine for staightening, bending, curving and circling beams, bars and plates of iron or other metals.	1082	18th April 1865	John Todd.
Machinery for combing, preparing and drawing wool or other fibrous material - - -	1084	18th April 1865	Thomas Whitehead. Nicholas Nussey.
Machinery for the manufacture of lace - - (*Communicated by Désiré Sival and Léon Sival.*)	1087	19th April 1865	Richard Archibald Brooman.
Machinery for cutting and dressing stones and other hard substances. (*Communicated by Gustavus Cuppers.*)	1093	19th April 1865	Maurice Vogl.
Preparing, spinning and doubling cotton, flax, wool, silk and other fibrous material - -	1116	21st April 1865	James Champion. John Brinsley Sheridan.
Machinery for moulding and making cores for moulding or casting metals.	1122	21st April 1865	Richard Canham.
Engines, machinery and implements employed in ploughing and tilling land.	1123	21st April 1865	Collinson Hall.
Digging machinery - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
A new process of tanning leather and other skins -	1126	22nd April 1865	Emile Stanislas Beaux. Edward Pannifex.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Spools or bobbins to be used in certain frames for preparing fibrous materials for spinning.	1127	22nd April 1865	Joshua Henry Wilson.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
Improvements in motive-power machinery for cultivating land, part of which improvements is applicable to driving machinery generally - -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Improvements in means or apparatus for measuring the flow or passage of liquids, which improvements are also applicable in obtaining motive-power.	1150	25th April 1865	Thomas Walker.
Sewing-machines - - - - - -	1166	26th April 1865	John Fairweather. William Fairweathe
Machinery for sewing and embroidering - -	1167	26th April 1865	George Mumby.
File cutting machines - - - -	1172	26th April 1865	James Dodge.
Machinery for reducing friable substances to powder.	1178	27th April 1865	Henry Walker
Machinery for cutting or shaping masts, spars and other beams and articles of wood.	1179	27th April 1865	Samuel Harve
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Le
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Fran
Mangles - - - - - - -	1217	1st May 1865	
Straight line dividing engines and tools for regulating distances.	1245	4th May 1865	
Ploughs - - - - - - -	1246	4th May 1865	
Improvements in the preparation of jute, hemp, flax and other fibrous materials, and in the machinery or apparatus employed therein.	1262	5th May 1865	
Certain improvements in machinery for setting and distributing printing types. (*Communicated by Abiel Abbot Low, Josiah Orne Low, Edward Hutchinson Robbins Lyman, Charles Frederick Livermore, Augustus Corcy Richards and Charles Carroll Yeaton.*)	1271	8th May	
Ploughs - - - - - - -	1326	12th	
Machinery for the manufacture of hinges - - (*Communicated by Jean Baptiste Evrard and Jean Pierre Boyer.*)	1335	13th	
Steam cranes - - - - - -	1342	1	
Printing-machines - - - -	1344		
Reaping and mowing machines - - -	1371		
Sewing-machines - - - - -	1377		
Machinery for driving piles - - -	137		
An improved mangle - - - -	14		

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Knitting-machines - - - - - (*Communicated by Isaac Wixom Lamb.*)	1445	26th May 1865	William Clark.
Sawing-machines - - - -	1452	27th May 1865	Charles Frazer.
Circular saws commonly called drunken saws -	1475	29th May 1865	William Tighe Hamilton.
Spinning machinery - - - - (*Communicated by Julius Steiner.*)	1483	30th May 1865	Moritz Meisel.
An improved method of and apparatus for moulding wheels.	1488	30th May 1865	Luke Martin.
Driving apparatus for hair brushing and shampooing by machinery - - - -	1490	31st May 1865	Thomas Appleton Browne. John Knight.
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkington.
Machinery or apparatus for washing wool and other fibrous materials.	1500	31st May 1865	John Petrie, jun^{r}.
Machines for cutting hay, straw and other vegetable substances - - - -	1501	1st June 1865	Francis Richmond. Henry Chandler. James Gadsby Richmond
Reaping and mowing machines - - -	1503	1st June 1865	William James Burgess.
Looms for weaving - - - -	1524	3rd June 1865	Thomas Forster. James Eckersley.
Apparatus for the manufacture of rivets - -	1531	5th June 1865	Charles De Bergue.
Machinery or apparatus for spinning, doubling or twisting cotton and other fibrous materials -	1551	6th June 1865	Alfred Pemberton. Alfred William Pemberton.
An improvement in steam-engine governors - (*Communicated by Estus Lamb, Henry Stephen Mansfield and Lyman Arnold Cooke.*)	1561	7th June 1865	William Edward Newton.
An improvement in sewing-machines, which improvement is also applicable to other machines driven by a strap or band.	1566	8th June 1865	Jabez Draper.
Machinery or tools for cutting metals or other materials.	1571	9th June 1865	William Wilson Hulse.
Sewing-machines - - - - (*Communicated by Louis Planer.*)	1572	9th June 1865	George Haseltine.
Sewing-machines - - - -	1584	12th June 1865	John Glazebrook. Mark Nield Mills. Benjamin Riley Mills.
An improved construction of sewing-machine -	1592	12th June 1865	James Hayes.
Certain improvements in machinery employed in and for the manufacture of paper - -	1596	13th June 1865	Jonathan Alonzo Millington. Alfred Allnutt.
Hammers and other machines actuated by steam or other fluid or vapour - - -	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Sewing-machines - - - - -	1611	14th June 1865	George Edward Keats. John Keats.
An improved method of propelling agricultural implements.	1618	15th June 1865	Virgile Poitevin.
Improvements in sewing machines and in the machinery or apparatus connected therewith.	1661	20th June 1865	Duncan M^{c}Glashan, jun^{r}.
Apparatus for polishing, smoothing or facing, especially applicable to lithographic stones.	1668	21st June 1865	Charles Henry Gardner.
Sewing-machines - - - - (*Communicated by Thaddeus Hiram Walker.*)	1678	22nd June 1865	George Haseltine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Apparatus for obtaining and applying motive-power to various useful purposes - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Improvements in propelling vehicles and ships, and in apparatus for the same.	2493	28th Sept. 1865	Daniel Spink.
Machinery or apparatus for preparing and supplying food for cattle. (*moving the waggon.*)	2514	30th Sept. 1865	Robert Willacy.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Carriages propelled by manual power - -	2623	11th Oct. 1865	Thomas Du Boulay.
A new appliance of an electro-magnetic apparatus to increase the adherence of locomotive engine wheels to the rails.	2977	20th Nov. 1865	Angelo Vescovali.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.
Boilers or apparatus for generating steam - - (*for road steam-carriages.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
XIX.—Driving Machinery, Ploughs and Pumps; Feed Motions, Guides, Adjustments and Traversers; Transmitting Power and Motion; Cranks and Gearing.			
Sewing-machines and apparatus belonging thereto -	2	2nd Jan. 1865	Thomas Antoney Macaulay.
Machinery for smoothing or finishing paper -	8	2nd Jan. 1865	James Roger Crompton.
Manufacturing paper - - - - - (*Communicated by Jules Joseph Manecy.*)	15	3rd Jan. 1865	Leopold D'Aubréville.
Drilling apparatus for hand or steam power, adaptable also as a vice and for lifting purposes -	18	3rd Jan. 1865	George Hodgson. James Pitt.
Certain improvements in mules for spinning -	21	4th Jan. 1865	John Knowles. James Banks.
Certain improvements in sewing-machines and mechanism for driving the same. (*Communicated by Jacob Zuckerman.*)	36	5th Jan. 1865	Alfred Vincent Newton.
Jack and slubbing frames - - -	63	9th Jan. 1865	Ashworth Barlow.
Improvements in steam hammers and in apparatus employed in combination with steam hammers.	89	11th Jan. 1865	John Ramsbottom.
Machinery for opening and carding cotton and other fibrous materials.	90	11th Jan. 1865	Robert Tempest.
Machinery or apparatus for cleaning and decorticating grain.	115	13th Jan. 1865	Wilson Ager.
Machinery for preparing, spinning, doubling and winding wool, mohair, alpaca, silk, flax, cotton or other fibrous substances - - -	130	16th Jan. 1865	Jabez Bunting Farrar. John Hirst.
Mules for spinning and doubling - - -	133	16th Jan. 1865	William Rowbottom.
Improvements in driving rolls for rolling metals, and in apparatus employed therein. (*Communicated by Antoine François Marrel.*)	135	16th Jan. 1865	Richard Archibald Brooman.
Machinery or apparatus for planing and moulding or otherwise shaping wood - - -	143	17th Jan. 1865	John Robinson. John Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Pumps and apparatus for working the same -	436	15th Feb. 1865	George Tyrrill Humphris.
Shifting wrenches - - - - - (*Communicated by Pierre Augustin Samuël.*)	457	17th Feb. 1865	William Clark.
Machinery for sewing or uniting leather and other hard substances, particularly applicable to the manufacture of boots and shoes.	484	21st Feb. 1865	Charles Baulch.
An improved apparatus for shearing and burling all sorts of woven fabrics. (*Communicated by Calixte Hippolyte Jean Pierre Demaye and Jean Compagnie.*)	517	24th Feb. 1865	William Edward Gedge.
Machinery for sawing wood - - -	523	24th Feb. 1865	Samuel William Worssam.
Sewing-machines - - - - -	527	24th Feb. 1865	William Winter.
Sewing-machines - - - - -	551	27th Feb. 1865	Robert Barclay.
Machinery for mining coal and other substances - (*Communicated by William Watson Grier and Robert H. Boyd.*)	558	28th Feb 1865	George Lauder.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus employed therefor. (*varying traverse in cop winding.*)	563	28th Feb. 1865	David Chalmers.
An improved machine for pointing or drawing down railway spikes, and which said improved machine is also applicable for forming or drawing down the shanks of ordinary spikes and other articles of irregular shape.	575	1st March 1865	Moses Bayliss.
Reaping machinery - - - - -	576	1st March 1865	Nicholas Henwood.
Mules for spinning and doubling - - -	577	1st March 1865	John Dodd.
Apparatus for operating engineers' and carpenters' tools by hand or other power. (*adjusting.*) (*Communicated by Henry Winsor.*)	600	3rd March 1865	James Spence.
Binding attachments for sewing-machines - -	601	4th March 1865	Henry Everard Clifton. Abraham Hoffnung.
An improved machine for shaping file or other "blanks" by means of dies fitted into vibrating jaws.	616	4th March 1865	Thomas Turton.
Improvements in machinery for grinding corn and other substances, and in horse gear or apparatus for driving the same, which horse gear is also applicable for driving other machinery.	652	8th March 1865	Frederick William Turner.
Machinery for preparing flax, hemp and other fibrous materials requiring like treatment -	680	10th March 1865	Joseph Samuel. Samuel Millbourn.
Improved machinery or apparatus for scouring stones, marbles, slates and bricks - - -	686	11th March 1865	Jonas Hird. Joshua Walker.
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads. (*producing compound motion.*)	718	14th March 1865	Longin Gantert.
Machinery for rolling and shaping metals - -	736	16th March 1865	John Ramsbottom.
Machinery and apparatus for mining or working coal and other minerals - - - -	737	16th March 1865	James Farrar. Edwin Booth.
Differential wheel gearing - - - -	744	17th March 1865	John Standfield.
Sewing-machines - - - - -	766	18th March 1865	Owen Robinson.
Improved machinery for manufacturing paper and cloth-lined paper collars for gentlemen and ladies.	769	20th March 1865	Solomon Sally Gray.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Machinery for working puddled balls or blooms of iron and steel.	779	20th March 1865	William Menelaus.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Apparatus for cutting pasteboard and other like boards. (*Communicated by Elizur Ely Clarke.*)	789	21st March 1865	William Clark.
Machinery for thrashing and rubbing barley and other grain.	793	21st March 1865	Bernard James Webber.
A new or improved machine for dressing and rounding the inner surfaces of felloes.	794	22nd March 1865	Hiram Smith Jacobs.
Machinery and apparatus for indicating, selecting and reading in such cords of designs or patterns as are transferred and perforated on cards, papers or their substitutes, and for reproducing and repeating duplicates of such operations on such materials, for jacquard machines.	815	23rd March 1865	Duncan Mackenzie.
Machinery for sewing and stitching - -	819	23rd March 1865	Robert Wilson Morrell.
Sewing-machines - - - - - -	820	24th March 1865	Alfred Baillot.
Improvements in sewing-machines, which improvements also involve or comprise a new mode of manipulating the threads of the needle and shuttle in forming the "lock-stitch."	848	25th March 1865	Earle Harry Smith.
Machines for planing and shaping metals - -	856	27th March 1865	John Todd.
Improvements relating to apparatus for printing ornamental fabrics - - - - - (*applying guides.*)	870	28th March 1865	James Millar. John Laing.
Forging machines - - - - - -	882	28th March 1865	Joseph Wright.
Sewing-machines - - - - - -	883	29th March 1865	William Newton Wilson.
Cranes - - - - - - -	884	29th March 1865	William Irlam.
File cutting machinery - - - - (*Communicated by Alfred Weed.*)	885	29th March 1865	William Brookes.
Improvements in machinery for the cutting of nails, brads or spikes, and in the conformation of some of such nails and spikes.	886	29th March 1865	Richard Cardwell Robinson.
Certain improvements in machinery or apparatus used in carding cotton or other fibrous substances - - - - - - -	887	29th March 1865	Evan Leigh. Frederick Allen Leigh.
Improvements in wringing machines, parts of which are applicable to the construction of rollers. (*Communicated by Stephen Wing and Henry Holly.*)	922	1st April 1865	Henry Lewis.
Looms for weaving - - - - - -	928	1st April 1865	Alfred William Pearce.
An improved machine for rounding and polishing shot, shell and other balls or spheres. (*Communicated by William Davis Winsor.*)	952	4th April 1865	William Clark.
Improvements in certain electric telegraphs, part of which invention is applicable to other purposes.	960	5th April 1865	Adam Millar.
Traction engines - - - - - - (*driving gear.*)	962	5th April 1865	John Gay Newton Alleyne.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
Certain improvements in machinery or apparatus to be employed in preparing cotton and other fibrous substances for spinning.	990	7th April 1865	James Thompson.
Mechanism applicable to frame-filling machines for wooden matches, vestas and vesuvians.	1003	8th April 1865	Henry Joseph Simlick.
Electro magnetic engines - - - -	1012	8th April 1865	Siegmund Moore.
Machinery for cutting files - - - -	1013	8th April 1865	Thomas Turton.
Printing machinery - - - - -	1026	11th April 1865	David Payne.
Looms for weaving - - - - -	1032	11th April 1865	Archibald Turner.
An improved application of rotating brushes to the grooming or cleaning of horses and other quadrupeds.	1038	12th April 1865	John Haworth.
An improved guide applicable to sewing-machines -	1047	12th April 1865	Frederic Bapty. Edward Brydges Sayers.
Machinery for folding fabrics for pressing - -	1057	13th April 1865	William Speakman Yates.
Certain improvements in looms for weaving - -	1061	13th April 1865	Christopher Turner. Thomas Room.
Apparatus for shaping corks - - - -	1065	15th April 1865	John M^{c}Dowall.
Certain improvements in looms for weaving -	1070	17th April 1865	Mark Smith.
Rotatory aërial swings - - - - -	1073	17th April 1865	James John Matthewson. Heinrich Louis Rudolph Schlee.
Apparatus for distilling hydrocarbons from coals, schists and other minerals.	1076	17th April 1865	Joseph Dougan.
Machines for cutting or mincing meat, suet and other substances.	1077	17th April 1865	Albert Ward Hale.
Manufacture of tin and terne plates - -	1081	18th April 1865	John Jones Jenkins.
An improved machine for staightening, bending, curving and circling beams, bars and plates of iron or other metals.	1082	18th April 1865	John Todd.
Machinery for combing, preparing and drawing wool or other fibrous material - - -	1084	18th April 1865	Thomas Whitehead. Nicholas Nussey.
Machinery for the manufacture of lace - - (*Communicated by Désiré Sival and Léon Sival.*)	1087	19th April 1865	Richard Archibald Brooman.
Machinery for cutting and dressing stones and other hard substances. (*Communicated by Gustavus Cuppers.*)	1093	19th April 1865	Maurice Vogl.
Preparing, spinning and doubling cotton, flax, wool, silk and other fibrous material - -	1116	21st April 1865	James Champion. John Brinsley Sheridan.
Machinery for moulding and making cores for moulding or casting metals.	1122	21st April 1865	Richard Canham.
Engines, machinery and implements employed in ploughing and tilling land.	1123	21st April 1865	Collinson Hall.
Digging machinery - - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
A new process of tanning leather and other skins -	1126	22nd April 1865	Emile Stanislas Beaux. Edward Pannifex.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Spools or bobbins to be used in certain frames for preparing fibrous materials for spinning.	1127	22nd April 1865	Joshua Henry Wilson.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
Improvements in motive-power machinery for cultivating land, part of which improvements is applicable to driving machinery generally - -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Improvements in means or apparatus for measuring the flow or passage of liquids, which improvements are also applicable in obtaining motive-power.	1150	25th April 1865	Thomas Walker.
Sewing-machines - - - - - -	1166	26th April 1865	John Fairweather. William Fairweather.
Machinery for sewing and embroidering - -	1167	26th April 1865	George Mumby.
File cutting machines - - - - -	1172	26th April 1865	James Dodge.
Machinery for reducing friable substances to powder.	1178	27th April 1865	Henry Walker Wood.
Machinery for cutting or shaping masts, spars and other beams and articles of wood.	1179	27th April 1865	Samuel Harvey.
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Leatham.
Machinery or apparatus employed in breweries and distilleries.	1204	29th April 1865	Francis Gregory.
Mangles - - - - - - -	1217	1st May 1865	William Watts. John Joseph Cooper.
Straight line dividing engines and tools for regulating distances.	1245	4th May 1865	William Ford Stanley.
Ploughs - - - - - - -	1246	4th May 1865	John Stalkartt.
Improvements in the preparation of jute, hemp, flax and other fibrous materials, and in the machinery or apparatus employed therein.	1262	5th May 1865	James M'Glashan.
Certain improvements in machinery for setting and distributing printing types. (*Communicated by Abiel Abbot Low, Josiah Orne Low, Edward Hutchinson Robbins Lyman, Charles Frederick Livermore, Augustus Corey Richards and Charles Carroll Yeaton.*)	1271	8th May 1865	William Clark.
Ploughs - - - - - - -	1326	12th May 1865	John Eddy.
Machinery for the manufacture of hinges - - (*Communicated by Jean Baptiste Evrard and Jean Pierre Boyer.*)	1335	13th May 1865	William Clark.
Steam cranes - - - - - -	1342	15th May 1865	Charles James Appleby.
Printing-machines - - - -	1344	15th May 1865	Robert Harrild. Horton Harrild.
Reaping and mowing machines - - -	1371	18th May 1865	William Manwaring.
Sewing-machines - - - - - -	1377	18th May 1865	James Laing.
Machinery for driving piles - - -	1378	18th May 1865	William Eassie.
An improved mangle - - - -	1418	24th May 1865	Henry Nunn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Knitting-machines - - - - - (*Communicated by Isaac Wixom Lamb.*)	1445	26th May 1865	William Clark.
Sawing-machines - - - -	1452	27th May 1865	Charles Frazer.
Circular saws commonly called drunken saws -	1475	29th May 1865	William Tighe Hamilton.
Spinning machinery - - - - (*Communicated by Julius Steiner.*)	1483	30th May 1865	Moritz Meisel.
An improved method of and apparatus for moulding wheels.	1488	30th May 1865	Luke Martin.
Driving apparatus for hair brushing and shampooing by machinery - - - -	1490	31st May 1865	Thomas Appleton Browne. John Knight.
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkington.
Machinery or apparatus for washing wool and other fibrous materials.	1500	31st May 1865	John Petrie, jun^{r}.
Machines for cutting hay, straw and other vegetable substances - - - -	1501	1st June 1865	Francis Richmond. Henry Chandler. James Gadsby Richmond
Reaping and mowing machines - - -	1503	1st June 1865	William James Burgess.
Looms for weaving - - - -	1524	3rd June 1865	Thomas Forster. James Eckersley.
Apparatus for the manufacture of rivets - -	1531	5th June 1865	Charles De Bergue.
Machinery or apparatus for spinning, doubling or twisting cotton and other fibrous materials -	1551	6th June 1865	Alfred Pemberton. Alfred William Pemberton.
An improvement in steam-engine governors - (*Communicated by Estus Lamb, Henry Stephen Mansfield and Lyman Arnold Cooke.*)	1561	7th June 1865	William Edward Newton.
An improvement in sewing-machines, which improvement is also applicable to other machines driven by a strap or band.	1566	8th June 1865	Jabez Draper.
Machinery or tools for cutting metals or other materials.	1571	9th June 1865	William Wilson Hulse.
Sewing-machines - - - - (*Communicated by Louis Planer.*)	1572	9th June 1865	George Haseltine.
Sewing-machines - - - -	1584	12th June 1865	John Glazebrook. Mark Nield Mills. Benjamin Riley Mills.
An improved construction of sewing-machine -	1592	12th June 1865	James Hayes.
Certain improvements in machinery employed in and for the manufacture of paper - -	1596	13th June 1865	Jonathan Alonzo Millington. Alfred Allnutt.
Hammers and other machines actuated by steam or other fluid or vapour - - -	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Sewing-machines - - - - -	1611	14th June 1865	George Edward Keats. John Keats.
An improved method of propelling agricultural implements.	1618	15th June 1865	Virgile Poitevin.
Improvements in sewing machines and in the machinery or apparatus connected therewith.	1661	20th June 1865	Duncan M^{c}Glashan, jun^{r}.
Apparatus for polishing, smoothing or facing, especially applicable to lithographic stones.	1668	21st June 1865	Charles Henry Gardner.
Sewing-machines - - - - (*Communicated by Thaddeus Hiram Walker.*)	1678	22nd June 1865	George Haseltine.

Subject-matter of Patent.
PROPELLING, &c.—*continued.*
Machinery for printing in colors - - (*Communicated by Martin Moeglen.*)
Cotton gins - - - - (*Communicated by Frederick Tabor Acki Henry George Mitchell and Mustapha I tapha.*)
Twist lace machines - - - -
Machinery or apparatus for cutting, punching bending sheet metal. (*Communicated by Nathan Harper.*)
Knitting-machines - - - (*Communicated by William Williams Clay.*)
Machines for making paper board - -
Certain improvements in machinery or appar for turning and cutting wood and other stances, to be employed in the manufactur spools or bobbins or other similar articles.
Improved machinery for boring rocks and l substances.
Machinery for the manufacture of paper board paper.
Certain improvements in machinery or appar to be employed in the manufacture of met bolts, rivets and spikes.
Improved apparatus for gauging and marking width of tucks and pleats on fabrics u operation in sewing-machines.
Machinery for washing, wringing, mangling a drying domestic clothes or other fabrics a fibrous substances - -
Regulating or controlling the power employe actuating sewing and other machines of a nature.
Straight eye clearing guides or cleaners, for wind silk, cotton or other fibrous substances
Motive-power by capillary attraction -
Processes and machinery for producing fibres able for being spun, from rags or remnan woven or other textile fabrics made of silk, w cotton or other fibrous materials.
Improved mechanism for propelling, driving forcing purposes.
Sewing-machines - - - -
Means of and apparatus for raising water for agr tural and other useful and ornamental purpo (*Communicated by Jean Louis Celestin Acha*
Machinery for planing metals - - (*Communicated by William Sellers.*)
Applying and utilising water power - (*driving mills.*)
Preparing machinery for flax, tow, jute and ot fibrous materials - - -

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Improvements in and apparatus for treating peat in bogs and obtaining it therefrom, also applicable to tilling and cultivating land.	2004	2nd Aug. 1865	Charles Hodgson.
Apparatus used in rolling leather - - -	2007	2nd Aug. 1865	John Henry Tyler.
An improved method of working guns - -	2014	3rd Aug. 1865	Henry Duncan Preston Cunningham.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Machinery or apparatus for sizing, drying and beaming yarns of cotton or other fibrous substances - - - - - -	2022	4th Aug. 1865	John Gaukroger. John Dodgeon.
Machinery for manufacturing cigars - - (*Communicated by John Prentice.*)	2032	4th Aug. 1865	Alfred Vincent Newton.
Construction of binders for sewing-machines -	2033	4th Aug. 1865	George Baldwin Woodruff.
Apparatus for washing yarns - - -	2044	7th Aug. 1865	William Pollock. John Stobo.
Printing-machines - - - -	2056	8th Aug. 1865	William Rock.
Improvements in the lubricating of spindles, the necks or bolsters in which the said spindles revolve having a traversing motion in the said neck or bolster.	2059	9th Aug. 1865	Jacob Henry Radcliffe.
Construction of steam-engines - - -	2062	9th Aug. 1865	Henry Cartwright.
Construction of sewing-machines particularly adapted for sewing sacks and bags - -	2067	9th Aug. 1865	Barnabas Russ. Edward Gandell the younger.
Looms for weaving - - - -	2073	10th Aug. 1865	John Ingham. Henry Ingham. James Broadley.
Machinery or apparatus for the manufacture of needles.	2074	10th Aug. 1865	Chauncey Orrin Crosby.
Process of and machinery for cleaning china grass and flax, and removing therefrom the resinous and woody matters that adhere to the useful fibres of the plant.	2078	10th Aug. 1865	Joseph Faren.
Machines for making eyelets - - - (*Communicated by James Louis Harlem and Theodore Luzerne Payne.*)	2079	10th Aug. 1865	William Edward Newton.
Apparatus for obtaining and applying motive-power to various useful purposes - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Machinery for preparing cotton, wool and other fibrous materials - - - -	2089	12th Aug. 1865	Jonas Tatham. John Smith.
Certain improvements in looms for weaving -	2091	12th Aug. 1865	William Bullough.
Machinery or apparatus for the manufacture of paper bags. (*Communicated by Delavan Clark.*)	2116	16th Aug. 1865	John Henry Johnson.
Lawn mowing machines - - - -	2119	16th Aug. 1865	James Bryce Brown.
Certain improvements in machinery for making bricks. (*Communicated by Egbert Cox Bradford and James Henry Renick.*)	2149	19th Aug. 1865	William Edward Newton.
Improvements in lithographic and copper plate printing, and in the machinery or apparatus connected therewith.	2170	23rd Aug. 1865	Donald M^cKellar.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Steam hammers	2174	24th Aug. 1865	David Davies.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*propelling through tubes.*)	2184	25th Aug. 1865	Edwin Augustus Curl
Improvements in the manufacture of velvet and in the apparatus employed therein. (*regulating height of pile.*) (*Communicated by Messieurs Fraisse-Brossard fils jeunes.*)	2204	28th Aug. 1865	Henri Adrien B
Applying motive-power to sewing-machines, for the purpose of rendering them self-acting.	2218	29th Aug. 1865	Geminiano
Sewing or stitching machines	2287	6th Sept. 1865	Robert A George
Machinery for winding yarn cops	2297	7th Sept. 1865	William
Machinery or apparatus for hulling and winnowing grain. (*Communicated by Friedrich Henckel and Wilhelm Seck.*)	2300	7th Sept. 1865	Willia
An improved wheel feed for sewing-machines	2313	9th Sept. 1865	Jo
Reaping-machines	2324	11th Sept. 1865	C
Clothes wringing machines, the mode of communicating rotary motion in which is also applicable to other machines having similarly rotating parts. (*Partly communicated by James Pease and David Lyman.*)	2336	12th Sept. 1865	
Machinery for the manufacture of rivets	2355	14th Sept. 186	
Improved machinery for cutting stone (*Communicated by George Jeffards Wardwell.*)	2363	15th Sept. 18	
Machinery or apparatus for shaping metal articles (*Communicated by Robert Heapy Butcher.*)	2371	16th Sept.	
Machinery for cutting and shaping cork, with apparatus for registering the manufacture.	2393	20th Sept	
Mills for crushing and grinding wheat and other grain.	2399	20th Se	
Machinery for excavating earth (*guiding, varying depth of cut.*)	2403	21st S	
Machinery for grinding, dressing, smoothing or polishing flags and stones, without the use of the ordinary cutting tools	2411	21	
Hoisting machines (*Communicated by William Miller.*)	2414	2	
Construction of presses for hay, cotton, hemp and other substances. (*Communicated by Thomas Gannon and Thomas Bolton Webster.*)	2454		
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary.	24		
Machinery for tempering and preparing peat for fuel. (*Communicated by Nathaniel Frothingham Potter.*)			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Washing and wringing machines - - - (*Communicated by Thomas Bletcher.*)	2478	27th Sept. 1865	Richard Archibald Brooman.
Improved self-centering and tightening chucks for drilling-machines, lathes, and other machines in which chucks are used. (*Communicated by John Edwin Earle.*)	2491	28th Sept. 1865	Edward Thomas Hughes.
Sewing-machines - - - - - (*Communicated by John Nathaniel Tarbox.*)	2498	28th Sept. 1865	Richard Archibald Brooman.
Apparatus for grinding cards of carding-engines - (*traversing.*)	2518	30th Sept. 1865	Samuel Faulkner.
Weft winding-machines both for winding on bobbins and cops, also for a shuttle to hold the cop when weaving. (*driving the spindles.*)	2519	30th Sept. 1865	William Longbottom.
Travelling cranes - - - - -	2524	2nd Oct. 1865	David Greig. Robert Burton.
An improved sewing-machine - - - (*Communicated by Henry Hudson.*)	2532	3rd Oct. 1865	William Robert Lake.
File cutting machines - - - - (*adjusting and guiding.*)	2548	4th Oct. 1865	John Dodge.
Machinery for folding fabrics and inserting cardboard or other substances between the folds - (*guiding the fabric.*)	2550	5th Oct. 1865	Richard Tonge.
Sewing-machines - - - - (*Communicated by Joseph Louis Kieffer and Charles Nicolas Erny.*)	2551	5th Oct. 1865	Michael Henry.
Machinery for shaping metal and other substances -	2552	5th Oct. 1865	Hesketh Hughes.
Improvements in and applicable to machines for opening and cleaning cotton and other fibrous materials - - - - - - (*driving the feed rollers.*)	2557	5th Oct. 1865	Edward Marsland. Peter Williams.
Double or single action pumps - - (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
An improved method of working windlasses -	2635	12th Oct. 1865	George Deslandes. Albert Deslandes.
Machinery employed for crushing, amalgamating and washing gold quartz and other minerals or matters containing gold or other metal. (*Communicated by James Hart.*)	2643	13th Oct. 1865	William Halse Gatty Jones.
Apparatus for finishing textile fabrics - -	2647	13th Oct. 1865	William Robertson. James Guthrie Orchar.
Sewing-machines - - - -	2649	13th Oct. 1865	George Baldwin Woodruff.
Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances.	2651	14th Oct. 1865	Godfrey Anthony Ermen.
Machinery for cutting screws - - -	2652	14th Oct. 1865	Joseph Tangye.
Apparatus for polishing and crushing - -	2655	14th Oct. 1865	James Lamb Hancock.
Construction of skips for raising ballast, corn, coal, minerals and other matters in bulk.	2663	16th Oct. 1865	Charles Henry Murray.
Sewing-machines - - - - -	2666	16th Oct. 1865	Joseph Buchanan Robertson.
Improvements in wheels for common road carriages, in tyres for the same, and in machinery for bending the tyres.	2668	16th Oct. 1865	James Lamb Hancock.
Certain improvements in looms for weaving -	2672	17th Oct. 1865	Edward Lord.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Machinery for the manufacture of fish hooks -	2673	17th Oct. 1865	Albert Fenton.
Machinery for weaving the covering of blind-cord and other tubular fabrics. (*Communicated by Isaac Emerson Palmer.*)	2681	17th Oct. 1865	Henry Edward
Machinery for hanging fabrics in stoves or chambers	2685	18th Oct. 1865	William Sch John Smith
Improvements in block matches and in machinery for making the same - - - - -	2690	18th Oct. 1865	James Wh Henry Le
An improved method of hanging or suspending blinds from blind rollers, and improvements in the manufacture of such rollers. (*adjusting the rollers.*)	2732	21st Oct. 1865	Samuel P
Sewing-machines - - - - - - (*Communicated by Charles Rhodes Goodwin.*)	2740	23rd Oct. 1865	Willia
Improvements in sewing machinery for using waxed thread. (*Communicated by Thomas John Halligan.*)	2748	24th Oct. 1865	Alfr
Mules for spinning and doubling - - - (*Communicated by Ernest Stamm.*)	2763	26th Oct. 1865	H
Driving or actuating machinery - - -	2773	27th Oct. 1865	
Apparatus for producing accelerated motion for driving purposes - - - - -	2779	28th Oct. 1865	
Improvements in the construction and arrangement of sewing-machines, and in the apparatus employed therein - - - - -	2784	28th Oct. 186	
Transmitting motion to propelling shafts - - (*Communicated by James Buchanan Eads.*)	2807	31st Oct. 18	
Machinery for dressing millstones - - - (*Communicated by Eleazer A. Paine.*)	2817	1st Nov.	
Machinery or apparatus for reeling silk, cotton or other fibrous threads in the form of skeins. (*self-acting guider.*)	2826	2nd Nov	
Improvements in machinery for compressing cotton, wool and other materials, for the economy of transit, which said improvements more particularly relate to the more expeditious filling of the box of the press and fastenings for bales.	2837	3rd N	
Mounting and driving millstones - - -	2839	3	
A new thrashing machine worked directly on the thrashing floor by oxen or horses.	2888		
Machines for fret cutting or sawing - - -	2896		
Machinery for rolling shafts and axles - - (*Communicated by Thomas Cooper.*)	2904		
Crank axles of locomotives for railroads - - (*Communicated by Dyer Williams.*)	290		
Railway steam-engines and carriages - - (*transmitting the driving power.*)	29		
Apparatus for raising, lowering, moving or transporting heavy bodies - - - - -			
Means of connecting drums or pulleys with their shafts or drivers. (*Communicated by Leverett Homer Olmsted.*)			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Application of pressure to the rollers of spinning, preparing and other machinery.	2995	21st Nov. 1865	Thomas Richards Harding
An improved machine or apparatus for shaping and forging iron.	3027	25th Nov. 1865	John Arrowsmith.
Machinery for cutting mouldings in wood - - (*Communicated by John Bartlett Winslow.*)	3040	27th Nov. 1865	William Edward Newton.
Improved machinery to be used in the manufacture of paper. (*regulating speed.*) (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Improvements in communicating rotary motion when either the giver or receiver of such motion is in a state of vibration or oscillation, or both vibration and oscillation together.	3058	29th Nov. 1865	Peter Gaskell.
Improvements in sewing-machines and in sewing or embroidering.	3079	1st Dec. 1865	Isaac Merritt Singer.
Apparatus for raising, lowering and moving heavy bodies, and for transmitting and arresting motion for various purposes.	3093	2nd Dec. 1865	Thomas Aldridge Weston.
Improvements in winding machinery, which improvements are partly applicable to machinery for spinning and doubling.	3116	5th Dec. 1865	John Jackson Ashworth.
Means or apparatus for preparing and combing wool and other fibrous substances.	3123	5th Dec. 1865	Isaac Holden, M.P.
Machinery employed when getting coal and other minerals.	3127	5th Dec. 1865	George Edmund Donisthorpe.
Steam cranes and hoists - . - -	3130	5th Dec. 1865	Andrew Betts Brown.
Improvements in reaping and mowing machines, part of which is applicable to machinery in general. (*reducing speed.*)	3142	6th Dec. 1865	Adam Carlisle Bamlett.
Machinery for rolling gun barrels and other articles (*driving rolls.*)	3155	8th Dec. 1865	Thomas Claridge.
Machinery for cutting files - - - - (*Communicated by Aaron Chambers.*)	3165	8th Dec. 1865	George Tomlinson Bousfield.
Improved arrangement of the parts in sewing-machines, for using wax thread for sewing on the soles of boots and shoes.	3170	9th Dec. 1865	William Jackson.
Improvements in coating metals and in apparatus to be used for this purpose.	3183	9th Dec. 1865	Edmund Morewood.
Steam-engines - - - - - (*substitute for crank.*)	3213	12th Dec. 1865	Joseph Stocker.
Machinery for boring rock and other mineral - (*Communicated by Carl Sachs.*)	3218	13th Dec. 1865	Frederick Bernard Dœring.
Machinery for opening and cleaning cotton and other fibrous substances - - - (*traversing the cylinders.*)	3233	14th Dec. 1865	Thomas Ridley Hetherington. Samuel Thornton.
Machinery for splitting leather, skins and other similar articles. (*Communicated by Sewell Brown Noyes.*)	3277	19th Dec. 1865	George Tomlinson Bousfield.
Machinery for raising or forming articles of sheet metal. (*Communicated by Mellen Bray.*)	3319	22nd Dec. 1865	George Tomlinson Bousfield.
Machinery for boring, turning and shaping articles of wood - - - - - - -	3362	29th Dec. 1865	William Harrison. Thomas Walker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PROPELLING, &c.—*continued.*			
Certain improvements in looms for weaving -	3366	29th Dec. 1865	Thomas Watson.
Machinery for spooling cotton and other yarns and threads.	3376	30th Dec. 1865	Robert Smith.
For Driving-bands, *see* "STRAPS." For adjusting Fire-arms, *see* "FIRE-ARMS."			
PUMPS; PUMPING AND RAISING WATER AND OTHER LIQUIDS; PUMP PISTONS AND PACKINGS; SHIPS' PUMPS; TURBINES; BEER ENGINES.			
An improvement in ordinary lift and force pumps -	11	3rd Jan. 1865	Martin Benson.
Improvements in the manufacture of elastic packings for pistons, and in lubricating compositions therefor.	19	4th Jan. 1865	Edward Keirby.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydraulic presses.	155	18th Jan. 1865	William Robert Foster.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*see* "WATER-WHEELS.") (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - - - (*or pumps.*)	166	19th Jan. 1865	William Cleveland Hicks.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain or other analogous purposes. (*for raising water.*)	174	20th Jan. 1865	Louis Balma.
Improvements applicable to pumps - - - -	186	21st Jan. 1865	John Hays Wilson.
Construction of pumps for lifting and forcing liquids.	237	27th Jan. 1865	James Hind.
Applying power to the working of ships' windlasses, winches, capstans, pumps and other ships' gear.	242	27th Jan. 1865	Handel Moore.
Working ships' pumps - - - - -	303	3rd Feb. 1865	Matthew Blank.
An improved combustion pump - - - - (*Communicated by Thomas John Linton.*)	314	4th Feb. 1865	William Clark.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*working pumps.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PUMPS, &c.—*continued.*			
Improvements in and applicable to that and similar apparatus for raising and forcing fluids and feeding steam-boilers, known as "Giffard's Injector."	410	14th Feb. 1865	James Gresham.
Pumps and apparatus for working the same - -	436	15th Feb. 1865	George Tyrrill Humphris.
Beam engines - - - - - -	468	18th Feb. 1865	James Grafton Jones.
Certain improvements in hydraulic pumps in connection with engines of motive-power.	521	24th Feb. 1865	William Oram.
Pumps - - - - - - - (*Communicated by Honoré Maury.*)	620	6th March 1865	Richard Archibald Brooman.
Improved combinations of direct acting steam-engines with single or double acting pumps, for pumping water, air or gases.	751	17th March 1865	Jacob Goodfellow.
An improved arrangement of valves and other appliances for a new description of hydraulic engine for raising water and other fluids above their common level, the fluids so raised to be used as a motive-power - - - -	791	21st March 1865	James Smith. Sydney Arthur Chease.
Obtaining motive-power - - -	802	22nd March 1865	Valentine Baker.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating pumps.*)	864	27th March 1865	Ferdinand Le Roy.
Improvements in paddle wheels, parts of which are applicable to other purposes. (*to pumps.*)	935	3rd April 1865	William Cantrill Gollings.
Double acting lift and force pumps - -	943	4th April 1865	Charles Denoon Young.
Suction and force pumps - - - - -	951	4th April 1865	Robert Baynes.
Apparatus for feeding boilers, raising water and propelling vessels. (*Communicated by Pierre Samain.*)	1062	13th April 1865	Richard Archibald Brooman.
Certain improvements in pumps - - - (*Communicated by Dikran Oumedian.*)	1099	20th April 1865	Meguerditch Houssepian.
Improvements in apparatus for raising water and other fluids, and in raising and lowering such apparatus.	1191	28th April 1865	Julian Bernard.
Certain improvements in pumps - - - (*Communicated by Messieurs Armand Labarre and Aimé Bellet Dusourd.*)	1210	1st May 1865	Charles Edward Herpst.
Construction of pumps for raising water and other liquids - - - - - - - -	1350	15th May 1865	William Easton. Edward Moore. William Gillies.
Apparatus for raising oil and other liquids from deep wells. (*Communicated by Francis Stebbins Pease.*)	1392	20th May 1865	William Edward Newton.
A new system of rotative machines to be used as steam-engines and water pumps.	1447	26th May 1865	Jean Alphonse Heinrich.
A new or improved machine for obtaining motive-power and other useful purposes. (*for raising or projecting water.*)	1468	29th May 1865	Henry Moseley.
Certain improvements in the formation and construction of metallic vessels, chambers or hollow cylinders used in hydraulic apparatus, cannon or heavy guns, and for like purposes.	1505	1st June 1865	Herbert Allman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PUMPS, &c.—*continued.*			
Turbines	1534	5th June 1865	Thomas Gentle. Joseph Allmark.
An improved apparatus for separating the whey from the curd in the manufacture of cheese.	1535	5th June 1865	Philip Coombes.
An improved metallic stuffing box	1555	7th June 1865	Victor Duterne.
Hydraulic motive-power machinery	1642	17th June 1865	Valentine Baker.
Apparatus for the decantation and raising of petroleum and other oils.	1724	28th June 1865	Paul Jacovenco.
Steam pumping machines or engines	1760	3rd July 1865	Martin Benson.
Pumps (*Communicated by Jean Pierre Tajan.*)	1864	17th July 1865	Richard Archibald Brooman.
Obtaining motive-power when heated air or aëriform fluid is employed.	1915	22nd July 1865	Matthew Piers Watt Boulton.
Means of and apparatus for raising water for agricultral and other useful and ornamental purposes. (*Communicated by Jean Louis Celestin Achard.*)	1918	22nd July 1865	William Edward Gedge.
Fire-engines and hydraulic machines	1953	28th July 1865	Leon Paul Laroche.
Applying and utilising water power (*driving turbines, pumping.*)	1967	29th July 1865	Valentine Baker.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor (*steam liquid raiser.*)	1996	2nd Aug. 1865	James McEwan. William Neilson.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Making and manufacturing pumps for use in ships and other purposes.	2107	15th Aug. 1865	Abel Mill a.
Hydropults and hydrostatic pumps	2305	8th Sept. 1865	James Webster.
An improved construction of engine which can be used either as a motor or for pumping. (*Communicated by John Benjamin Root and William Benjamin.*)	2453	25th Sept. 1865	William Edward Newton.
Centrifugal pumps and fans	2489	28th Sept. 1865	Arthur Rigg, junr.
Apparatus for administering injections and douches to the human body.	2555	5th Oct. 1865	William Robert Barker.
Improvements in apparatus and means for extinguishing fires, part of such improvements being applicable for other purposes.	2559	5th Oct. 1865	William Henry Phillips.
Rotary engines and pumps (*Communicated by Fidèle Chatelain.*)	2567	6th Oct. 1865	Richard Archibald Brooman.
Double or single action pumps (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
Apparatus for raising liquids	2632	12th Oct. 1865	Jean Ursin Bastier.
Improvements in hydraulic presses and in apparatus connected therewith	2698	19th Oct. 1865	Thomas Routledge. Daniel Bentley. John Broad Jackson.
Rotary pumps (*Communicated by Edward Roesch.*)	2706	20th Oct. 1865	Charles Denton Abel.
Construction of pumps for raising or forcing water or other liquids or fluids	2745	24th Oct. 1865	Hyde Bateman. Edward Gooch Garrard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PUMPS, &c.—*continued.*			
An improved non-conducting composition for preventing the radiation or transmission of heat or cold. (*for protecting pumps from frost.*)	2853	4th Nov. 1865	James Thys.
Construction of pumps for raising water and other liquids.	2946	15th Nov. 1865	William Easton.
Improvements in means or apparatus for measuring the passage or flow of liquids, for raising and forcing fluids, and for obtaining motive-power, also in means for the manufacture of parts of such apparatus.	2968	17th Nov. 1865	Walter Payton.
Improvements in the hulls and tackle of navigable vessels, and in the gear for propelling the same by wind and steam or other motive-power engine, and clearing the same from water, and in apparatus connected therewith to enable the said vessels to be converted in floating graving docks, or lifts for raising vessels and other submerged or partially submerged heavy bodies to or above the surface of the water.	3031	25th Nov. 1865	John Ferrier.
Certain apparatus for injecting and ejecting fluids and liquids. (*lifting liquids from great depths.*)	3179	9th Dec. 1865	Andrew Barclay.
Turbines for obtaining motive-power, applicable also to raising and forcing fluids, and to propelling ships or vessels. (*Communicated by Joseph Denis Farcot, Jean Joseph Léon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Chateau and Emmanuel Denis Farcot.*)	3222	13th Dec. 1865	William Brookes.
An improved construction of rotary engine - - (*or pump.*)	3225	13th Dec. 1865	Peter Gardner.
Pumps - - - - - - - (*ships' pumps, beer engines.*)	3315	22nd Dec. 1865	William Jackson.
Pumps - - - - - - -	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Brain.
PURSES AND FASTENINGS.			
An improved system of closing spatter-dashes, applicable also to boxes, portemonnaies and other similar articles.	658	9th March 1865	Emile Carchon.
An improved fastening for purses and other like articles - - - - - - (*Communicated by Carl Posen, Jacob Posen and Ludwig Pohl.*)	2347	13th Sept. 1865	David Hyam. John Hyam.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for purses.*)	2423	22nd Sept. 1865	Matthew Cartwright.
An improvement in clasps or fastenings - - (*for purses.*)	2525	2nd Oct. 1865	Frederic Jenner.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
PURSES, &c.—*continued.*			
Improvements in satchels and in the manufacture of the gussets of leather satchels, bags and purses and of the gussets of other articles made of leather.	2707	20th Oct. 1865	Frederick Thompson.
Locks or catches for portmonnaies, portfolios or other articles - - - - - -	2939	15th Nov. 1865	George Chambers. George Gregory.
RAGS AND WASTE; SEPARATING FIBRES FROM FABRICS.			
Certain improvements in the manufacture of lint -	73	10th Jan. 1865	Samuel Shaw Brown.
Machinery for opening and carding cotton and other firous materials. (*tearing rags.*)	90	11th Jan. 1865	Robert Tempest.
Means or apparatus for extracting or expressing oil or grease from the greasy waste of fibrous substances or other substances containing oil or grease - - - - - -	261	30th Jan. 1865	William Teall. Abraham Naylor.
Improved machinery for cutting, sifting, separating, bruising, sacking and preparing straw and other vegetable fibrous substances to be employed in the manufacture of various kinds of paper, and also for preparing food for cattle - - -	340	7th Feb. 1865	John Cornes. William Simpson.
Separating wool from refuse mixed fabrics and materials.	511	23rd Feb. 1865	Samuel Saville.
An improved method of treating, cleaning or preparing painted or other canvas, tarpaulins and dirty cotton waste, so as to render the same suitable to be used for household and other purposes for which they may be applicable.	752	17th March 1865	William Maurice Williams.
Manufacture of yarn so as to render same applicable as a substitute for woollen yarn, for manufacturing into shawls and other textile fabrics. (*waste hemp and flax.*)	774	20th March 1865	Isidor Philippsthal.
An improved process for reducing or preparing waste animal matters, for the purpose of employing the same in the preparation of manures or fertilizing compounds.	893	29th March 1865	William Moxon Fuller.
Improvements in the manufacture of paper and paper stock, and in the utilization of certain waste products resulting therefrom - - (*treating rags.*)	1602	13th June 1865	Thomas Routledge. William Henry Richardson.
Processes and machinery for producing fibres suitable for being spun, from rags or remnants of woven or other textile fabrics made of silk, wool, cotton or other fibrous materials.	1881	19th July 1865	Henry Ernest Gilles.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes.	1952	27th July 1865	Henry Sherwood.
Improvements in reducing vegetable fibre to pulp, and in machinery employed therein.	2002	2nd Aug. 1865	William Wharton Burdon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAGS, &c.— *continued.*			
Apparatus for steeping or treating paper pulp and other matters subjected to the action of alkalies. (*rags.*) (*Communicated by Messieurs Neyret, Orioli and Fredet.*)	2574	6th Oct. 1865	William Clark.
A means or method of and apparatus to be employed for utilizing waste healds for weaving -	3257	16th Dec. 1865	Francis Johnston. William Astley.
Machinery used in tearing silk and other fabrics and rags - - - - - -	3356	28th Dec. 1865	Sidney Collins. Charles Collins.
Means or apparatus for extracting wool from cotton and other vegetable substances contained in mixed fabrics - - - - - -	3378	30th Dec. 1865	Arthur Knowles. James Knowles. Joshua Barraclough.
RAILWAYS AND RAILWAY CARRIAGES.			
I.—Permanent Way, Rails, Rail-joints, Chairs and Sleepers; Portable Railways, Atmospheric Railways, Tramways.			
Improvements in the permanent way of railways and in buckled plates to be used therein, the same being applicable to the construction of fire-proof buildings, bridges and other like structures, also in the machinery or apparatus for producing such improved plates.	164	19th Jan. 1865	Robert Mallet.
Apparatus for taking up and delivering mails and other parcels in railway trains while in motion. (*Communicated by Julien Eugène Cuvier.*)	177	20th Jan. 1865	William Clark.
Construction of permanent way for railroads - -	184	21st Jan. 1865	James Godfrey Wilson.
Improved apparatus for transmitting letter bags and parcels to and from railway trains whilst in motion. (*Communicated by Charles Louis Ferdinand Varailhon-Lafilolie.*)	187	21st Jan. 1865	Charles Denton Abel.
Improvements in rail and tramways, in laying electric telegraph wires, and in compositions for insulatating the same. (*Communicated by Jean Arnand Emile Laloubère.*)	269	31st Jan. 1865	Richard Archibald Brooman.
Permanent way of railways - - - - -	275	31st Jan. 1865	Ewing Pye Colquhoun. John Pardoe Ferris.
Railway chairs, fastenings and sleepers - -	318	4th Feb. 1865	Robert Richardson.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Permanent way of railways - - - - -	386	11th Feb. 1865	John Porter. James Porter.
Railway rails - - - - - - -	434	15th Feb. 1865	Denison Chauncey Pierce.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Permanent way and rolling stock of railways -	520	24th Feb. 1865	John Kennedy Donald.
Railway chairs, fastenings and sleepers - -	544	27th Feb. 1865	Henry Henson Henson.
An improved process and apparatus for impregnating wood with chemical solutions. (*railway sleepers.*) (*Communicated by Ernest Bazin and Jules Hémery.*)	590	2nd March 1865	William Edward Newton.
Apparatus for propulsion by atmospheric pressure -	598	3rd March 1865	Sir John Scott Lillie, Knight.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - -	688	11th March 1865	Charles Middleton Kernot. Nathaniel Symons.
Improvements in the means and apparatus employed for treating timber with antiseptic or preservative fluids, also applicable to other purposes. (*for railway sleepers.*)	734	16th March 1865	Samuel Bagster Boulton.
Permanent way of railways - - - - (*Communicated by Gabriel Dümler.*)	738	16th March 1865	William Loeder.
Manufacture or construction of rails for railways. (*Communicated by Gabriel Dümler.*)	832	24th March 1865	William Loeder.
Street railways - - - - - (*Communicated by William Desmond O'Brien.*)	923	1st April 1865	Richard Archibald Brooman.
Machinery for the manufacture of railway bolts and spikes and other like articles.	992	7th April 1865	Thomas Wilkes.
Construction of the permanent way of railways - (*Communicated by Moritz Hilf.*)	1131	22nd April 1865	William Bünger.
Construction of railway rails and wheels - -	1158	25th April 1865	John Townsend Bucknill.
Improvements in railway chairs and in the mode of securing rails thereto. (*Communicated by Charles W. Stafford.*)	1163	26th April 1865	Richard Eccles.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metal. (*for railway chairs.*)	1206	1st May 1865	Henry Bessemer.
Securing the rails of the permanent way of railways	1306	11th May 1865	William Tijou.
An improved method of and apparatus for laying single line articulated railways, and a method of propelling thereon, particularly applicable for agricultural purposes.	1321	12th May 1865	Richard Winder.
Construction of the permanent way of railways -	1511	1st June 1865	Thomas Hunt.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Improvements in the permanent way of railways and in locomotives applicable thereto.	1593	12th June 1865	William James Hixon.
Improved sanitary apparatus or arrangements for preventing noxious exhalations such as arise when coating or treating iron or other articles - (*tarring railway gauge bars.*)	1690	24th June 1865	Matthew Andrew Muir. James M'Ilwham.
Forming the permanent ways of railways - -	1705	26th June 1865	John Whittle.
Securing the rails of railways - - - -	1713	27th June 1865	John Kirkham.
An improved circular endless railway - - - (*Communicated by Ernest Michaux.*)	1771	5th July 1865	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Permanent ways of railways - - -	1842	12th July 1865	James Edwards Wilson.
Apparatus for the locomotion of trains on railways, by atmospheric pressure.	1852	14th July 1865	William Podmore Bayliss.
Mode of connecting rails for railways and tramways	1878	19th July 1865	Constantine Henderson.
Construction and working of furnaces for puddling, balling, heating and melting metals. (*and for forming a tramway for trucks to receive ashes, &c.*)	1882	19th July 1865	David Caddick.
Manufacture of iron and steel - - - (*rolling rails.*) (*Communicated by Martin Dieudonné Henvaux.*)	1964	29th July 1865	Ephraim Sabel.
Manufacture of iron rails and girders - - - (*Communicated by Martin Dieudonné Henvaux.*)	1976	31st July 1865	Ephraim Sabel.
Improvements in the construction of atmospheric railways and carriages, and in working the same.	1987	1st Aug. 1865	Alexander Doull.
Improvements in and apparatus for treating peat in bogs and obtaining it therefrom, also applicable to tilling and cultivating land.	2004	2nd Aug. 1865	Charles Hodgson.
Improved means or apparatus for retarding or stopping railway carriages and trains.	2045	7th Aug. 1865	John Mead.
Apparatus and fittings to be used in ships, for facilitating the loading, unloading and stowage of their cargoes. (*Communicated by Gilbert Auguste Fournier des Corats.*)	2048	7th Aug. 1865	William Clark.
An improved mode of and apparatus for facilitating the transportation and delivery of letters, newspapers and other freight. (*Communicated by Alfred Ely Beach.*)	2049	7th Aug. 1865	Alfred Vincent Newton.
Railway chairs - - - - - -	2099	14th Aug. 1865	William Frederick Henson.
Railway chairs, fastenings and sleepers - -	2182	25th Aug. 1865	Henry Henson Henson.
Construction of the permanent way of railways -	2183	25th Aug. 1865	William Rogers.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes. (*atmospheric pressure railway.*)	2184	25th Aug. 1865	Edwin Augustus Curley.
The improvement of the permanent way of railways and carriages for the same.	2227	30th Aug. 1865	James Cole Green.
Permanent way of railways - - - - (*Communicated by Jules Vautherin.*)	2256	1st Sept. 1865	William Clark.
Treating, working or manipulating cast steel, for the manufacture of wheel-tires, armour plates, or other articles requiring great hardness and tensile strength. (*rails.*)	2277	5th Sept. 1865	Julien Grand.
Machinery for excavating earth - - - -	2403	21st Sept. 1865	John Bostock Hulme.
Improvements in railways and in the wheels for railways. (*Communicated by Alexander Skelton.*)	2408	21st Sept. 1865	Alfred Vincent Newton.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - -	2463	26th Sept. 1865	Charles Middleton Kernot. Nathaniel Symons.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Pneumatic ways for the transmission of letters, merchandize and passengers. (*Communicated by Elias Parkman Needham.*)	2537	3rd Oct. 1865	William Edward Newton.
Permanent way of railways - - - - -	2624	11th Oct. 1865	Denison Chauncey Pierce.
A new self-adjusting apparatus for railway signals, applicable also to other purposes. (*working level crossing gates.*)	2715	20th Oct. 1865	George Mussell.
Railway chairs - - - - - -	2724	21st Oct. 1865	John Durrant Frazer.
Obtaining sliding surfaces by the interposition and circulation of a liquid or gaseous fluid between the frictional surfaces. (*sliding railways.*)	2729	21st Oct. 1865	Louis Dominique Girard.
Means or apparatus for distributing sand or other suitable matter on the rails of railways, to promote adhesion of the locomotive wheels thereto.	2798	31st Oct. 1865	David Perfitt Griffiths Matthews.
Permanent way of railways - - -	2932	14th Nov. 1865	Thomas Dobie.
Improved machinery for cutting tunnels and sinking shafts - - - - - - (*cutting levels.*)	2940	15th Nov. 1865	Alexander Alison. Henry Hoskings.
Improvements in the construction of railways and in spikes for securing the rails in position. (*Communicated by John M'Murtry.*)	3024	24th Nov. 1865	Alfred Vincent Newton.
Improvements in the manufacture and treatment of railway bars, tyres and axles, also in the construction of furnaces, machinery and apparatus connected therewith.	3084	1st Dec. 1865	Thomas Weatherburn Dodds.
Carriages, and endless trucks on and with which they run.	3100	2nd Dec. 1865	Adolphe Nicole.
Certain improvements in the manufacture of railway chairs and in the manner of securing rails thereto.	3131	6th Dec. 1865	Joseph Taylor.
Permanent way of railroads - - - - (*Communicated by Achille Cyprien Legrand.*)	3168	9th Dec. 1865	Henri Adrien Bonneville.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.
Permanent way of railways - - - - (*Communicated by Henry Warren Warner.*)	3199	11th Dec. 1865	William Robert Lake.
Manufacture of railway bars - - -	3224	13th Dec. 1865	John Sanderson.
Permanent way and wheels of railways - - (*Communicated by Mr. Gerard Christiaan Heyning.*)	3322	23rd Dec. 1865	Hector Auguste Dufrené.
II.—Railways, Switches, Points, Crossings and Turntables.			
Machinery or apparatus for working switches and signals of railways.	147	18th Jan. 1865	William Jeffreys.
Apparatus for working and controlling railway switches, points and signals.	432	15th Feb. 1865	Michael Lane.
An improved apparatus for shifting points on railways from an engine or train in motion.	474	20th Feb. 1865	George Henry Hibbert Ware.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Railways, &c.—*continued.*			
Improvements in and connected with levers for railway switches and signals.	709	14th March 1865	James Deas.
Railway points and switches - - -	844	25th March 1865	Henry Columbus Hurry.
Improvements in the manufacture of crossings for the permanent way of railways, and also in tyres for wheels.	1398	20th May 1865	Joseph Armstrong.
Turntables - - - -	1601	23rd June 1865	Candido Ravelli.
Points and crossings of railways - - -	1751	1st July 1865	William M^{c}Gregor.
Railway switches - - - - (*Communicated by William Wharton, jun'.*)	1786	6th July 1865	John Henry Johnson.
Apparatus and fittings to be used in ships, for facilitating the loading, unloading and stowage of their cargoes. (*Communicated by Gilbert Auguste Fournier des Corats.*)	2048	7th Aug. 1865	William Clark.
The improvement of the permanent way of railways and carriages for the same. (*elevated switch point.*)	2227	30th Aug. 1865	James Cole Green.
Apparatus for working railway switches, points and signals.	2669	16th Oct. 1865	Henry Skinner.
Certain improvements in "crossings" to be employed on railways or tramways.	2760	26th Oct. 1865	James Johnson.
A new or improved method of and apparatus for locking and unlocking gates, turnstiles and stiles, on railway crossings.	3138	6th Dec. 1865	George Daws.
Improvements in the construction and manufacture of steel crossings for railways, and in the moulds for casting the same, all or part of which said improvements in moulds are applicable for casting other articles.	3332	23rd Dec. 1865	Francis William Webb.
III.—Railway Carriages; Coupling, Uncoupling and altering position of Carriages and Engines.			
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edwards Wilson.
Construction of railway carriages - - -	95	11th Jan. 1865	Rock Chidley.
Apparatus for taking up and delivering mails and other parcels in railway trains while in motion. (*Communicated by Julien Eugène Cuvier.*)	177	20th Jan. 1865	William Clark.
Improved apparatus for transmitting letter bags and parcels to and from railway trains whilst in motion. (*Communicated by Charles Louis Ferdinand Varailhon-Lafilolie.*)	187	21st Jan. 1865	Charles Denton Abel.
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.
Bogie trucks used for supporting railway locomotive engines, carriages and waggons.	404	13th Feb. 1865	William Adams.
An improved means of securing the safety of railway passengers.	454	17th Feb. 1865	Coleman Defries.
Permanent way and rolling stock of railways -	520	24th Feb. 1865	John Kennedy Donald.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Apparatus for coupling and uncoupling railway waggons or carriages - - - - -	609	4th March 1865	Daniel Morris. Joseph Morris. James Morris.
Improvements in carriage ways and in carriages for the same.	661	9th March 1865	William Henry James.
Apparatus for enabling the passengers in a railway train to communicate with the guard.	679	10th March 1865	Albert Westhead.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - - -	688	11th March 1865	Charles Middleton Kernot. Nathaniel Symons.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Improvements in the construction of railway carriages, to facilitate the passage of the guard or other person from end to end of the train whilst it is travelling.	866	27th March 1865	John Calvin Thompson. John James Malbourne Green.
A new or improved arrangement of mechanism for propelling waggons in connection with railway hoists.	895	30th March 1865	George Greenish.
Improvements in the construction of locomotive engines and railway carriages, for facilitating their passage round curves - - - - (*Communicated by George John Horner.*)	916	31st March 1865	George Robert Stephenson. George Henry Phipps.
Means for communicating between the passengers and guards of railway trains or between two or more different situations. (*Communicated by Thomas Hunt.*)	1030	11th April 1865	John Henry Johnson.
Couplings for railway carriages, waggons, trucks and other vehicles.	1035	11th April 1865	Josiah Dadley.
Apparatus for signalling on railway trains - -	1055	13th April 1865	Albert Westhead.
Apparatus for covering railway trucks or vans and other carriages - - - - - -	1075	17th April 1865	Edward Morgan. George Henry Morgan.
Means of communicating and signalling between the passengers, guards and drivers of railway trains.	1078	17th April 1865	George William Garrood.
Means of covering railway trucks, vans and other carriages.	1090	19th April 1865	William Riddell.
Apparatus for communicating and signalling between passengers, guards and drivers of railway trains, by day or by night - - -	1097	20th April 1865	David Hancock. Thomas Evans.
Wheels and the manner of applying the same to railway carriages for passengers' and goods' traffic as also the leading wheels for locomotives.	1114	21st April 1865	William Day.
A new mail catching apparatus for bags or packages, without stopping the express trains or others.	1362	16th May 1865	André Chavanne.
An improved method of testing railway and other springs - - - - - - -	1374	18th May 1865	Joseph Mitchell. George Tilfourd.
Apparatus for increasing the safety of railway passengers and trains, signalling, lighting and forming a communication between all parts of such trains, also for securing the carriage doors.	1492	31st May 1865	Richard Howarth.
Construction of vans, waggons or carts employed for transporting furniture and other goods, on common roads and railways.	1495	31st May 1865	Frederick Hazeldine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Improvements in lamps for railway and other carriages, and in connecting lamps to carriages, a part of which improvements may also be applied to handles for carriages - - - - -	1637	17th June 1865	Walter Howes. William Burley.
Enabling the guards of railway trains to pass from one part of a railway train to another.	1643	19th June 1865	Henry Defries.
Locomotive engines and railway carriages - -	1646	19th June 1865	George Smith the younger.
Improvements in or applicable to railway and other carriage windows.	1718	28th June 1865	John Kay Farnworth.
Improvements in railway carriages, which improvements are intended to neutralize the destructive effects arising from the collision of trains.	1746	30th June 1865	Louis Faure.
Improvements in locomotive engines and in springs of railway carriages.	1769	4th July 1865	James Edwards Wilson.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - - (*lining for railway carriages.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Construction of springs for railroad and other carriages.	1860	15th July 1865	John Crawford Walker.
Construction of railway carriages - - -	1924	25th July 1865	John Rigg.
Improvements in the construction of atmospheric railways and carriages and in working the same.	1987	1st Aug. 1865	Alexander Doull.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes -	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
Improvements in the sackings of metallic and other bedsteads, sofas, couches and other like articles, which said improvements may also be applied to the seats of chairs, railway carriages and other articles. (*Communicated by Thomas Tunnington.*)	2036	5th Aug. 1865	Henry Geering.
A self-acting coupling for railway carriages and wagons - - - - - -	2037	5th Aug. 1865	Thomas Smith. John Brook.
An improved mode of and apparatus for facilitating the transportation and delivery of letters, newspapers and other freight. (*Communicated by Alfred Ely Beach.*)	2049	7th Aug. 1865	Alfred Vincent Newton.
Couplings or fastenings of railway carriages or trucks.	2082	11th Aug. 1865	Richard Douglas Morgan.
Improvements in and applicable to railway carriages to enable passengers to pass from one compartment to another, and to give signals on trains in motion.	2086	11th Aug. 1865	Thomas English Stephens.
Improved safety couplings for railway carriages -	2159	22nd Aug. 1865	Frederick Charles Bryan Robinson.
Construction of vans, waggons or carts employed for transporting furniture and other goods on common roads and railways.	2192	26th Aug. 1865	Frederick Hazeldine.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
The improvement of the permanent way of railways and carriages for the same.	2227	30th Aug. 1865	James Cole Green.
An improved mode of retaining and preventing the vibration of sliding windows used in dwellings and in railway and other vehicles, and for an improved apparatus for effecting the said purposes - - - -	2232	30th Aug. 1865	Thomas Wrigley. Marcus Brown Westhead.
Improvements in the means of fixing or attaching the bobbins of winding and other machines on to their spindles, which improvements are also applicable to other similar or analogous purposes, and to the detaching of railway carriages from trains whilst in motion.	2250	31st Aug. 1865	John Ward.
A new shackle or coupling for connecting railway carriages, wagons and other vehicles used on railroads, whereby going between the carriages, wagons or other vehicles, to couple or uncouple, is rendered totally unnecessary - - -	2268	4th Sept. 1865	Samuel Richards Freeman. Abraham Grundy.
Apparatus used in opening and closing carriage and other windows.	2319	9th Sept. 1865	John Pennington.
A locomotive car - - - - -	2344	13th Sept. 1865	Joseph Page Woodbury.
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages.	2379	18th Sept. 1865	Russel Aitken.
Railway carriages and other vehicles - - (*Communicated by Henry Hudson Trenor.*)	2394	20th Sept. 1865	John Henry Johnson.
An improved apparatus or mechanism for locking and unlocking railway carriage doors, and for making signals with reference thereto.	2442	23rd Sept. 1865	John Hawkins Simpson.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - -	2463	26th Sept. 1865	Charles Middleton Kernot. Nathaniel Symons.
Construction of railway carriages, waggons and trucks, and other road vehicles.	2561	7th Oct. 1865	Henry Griffith Craig.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Apparatus for raising and lowering the windows of railway and other carriages and other windows.	2816	1st Nov. 1865	John Kay Farnworth.
Formation of railway carriages - -	2858	6th Nov. 1865	Reuben Sims. Robert Burns.
Railway steam-engines and carriages - -	2928	14th Nov. 1865	Joseph Alphonse Loubat.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes.	3173	9th Dec. 1865	Alexander Doull.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Construction and arrangement of railway carriages, for the purpose of obviating or diminishing the bad consequences of collisions of or accidents to railway trains - - - -	3244	14th Dec. 1865	Henry Negretti. Joseph Warren Zambra.
See also "WHEELS FOR CARRIAGES." *See also* "AXLES." For Ventilating Railway Carriages, *see* "VENTILATION." For Lighting Railway Carriages, *see* "LAMPS."			
IV.—Railway Buffers and Breaks; Retarding and Stopping Trains; Preventing Collisions, &c.			
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Machinery for stopping railway trains - - (*Communicated by Candido Ravelli.*)	487	22nd Feb. 1865	Eugenio Jesurum.
Construction of buffers for railway carriages -	513	23rd Feb. 1865	William Rowe.
An improved means of securing and protecting the india-rubber rings of buffer springs of railway carriages, which invention is also applicable to air-pump and valve seatings, and lids faced with india-rubber.	626	6th March 1865	William John Oliver.
Railway breaks - - - - (*Communicated by Charles Louis Joseph Félix Jacquot.*)	745	17th March 1865	Henri Adrien Bonneville.
Improved mechanical arrangements for stopping or retarding railway carriages, waggons and trucks.	1021	10th April 1865	George Voigt.
Certain improvements in brakes for railway carriages.	1431	25th May 1865	Jules Xavier Joseph Barbaix.
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick Tolhausen.
An improved force dispeller or spring buffing apparatus.	1599	13th June 1865	William Jeffrey Hopkins.
An improved self-acting break for four-wheeled carriages.	1604	13th June 1865	James Griffiths.
Apparatus for preventing collisions and other accidents on railways. (*see* "SIGNALS.") (*Communicated by Eugène Vincenzi.*)	1621	15th June 1865	William Clark.
An improved apparatus for stopping railway trains -	1684	23rd June 1865	William Jeremiah Murphy.
Means of and apparatus for retarding the velocity of the wheels of railway and other carriages when in motion.	1710	27th June 1865	Henry Shaw.
Means applied for arresting and stopping the motion of locomotive engines, trains, carriages and other rolling stock of railways.	1736	30th June 1865	Patrick Denis Finnigan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Improvements in railway carriages, which improvements are intended to neutralize the destructive effects arising from the collision of trains.	1746	30th June 1865	Louis Faure.
Locomotive engines - - - - - (*Communicated by Auguste De Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Apparatus for stopping and retarding railway carriages and locomotive engines.	1759	3rd July 1865	Joseph Naveaux.
Railway signals - - - - - -	1856	14th July 1865	Augustus De Metz. Thomas Wickens Fry.
Signal and alarm apparatus for railways and railway trains.	1880	19th July 1865	Joseph Grindley Rowe.
Apparatus for preventing accidents on railways - (*see* "SIGNALS.")	1945	26th July 1865	Jean Jacques Samuel Wenk. Alexandre Alphonse Mathieu.
Apparatus for retarding the progress of railway carriages and trains.	1954	28th July 1865	William King.
An improved break for railway and other wheeled carriages.	1959	28th July 1865	Robert Brightmore Mitchell.
Means or apparatus for stopping or retarding railway carriages - - - - - -	1969	29th July 1865	John Swinburne. James Laming.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward M'Nally.
Signals for railways - - - - -	2009	3rd Aug. 1865	Edward Samuel Horridge.
Railway electrical signal apparatus - -	2016	3rd Aug. 1865	William Henry Preece.
Improved means or apparatus for retarding or stopping railway carriages and trains.	2045	7th Aug. 1865	John Mead.
Apparatus or mechanism for stopping or retarding railway trains.	2154	21st Aug. 1865	William Shakespear.
A new or improved method of and apparatus for applying electro-magnetism as a break power on railways - - - - - - - -	2238	31st Aug. 1865	Edward Cowpe. David Hancock.
An improved hydraulic break for railway and other purposes.	2337	12th Sept. 1865	William Jeremiah Murphy.
Railway breaks - - - - - - (*Communicated by Eugène Etienne Berthomieux, Jean Massieu and Louis Duverdier.*)	2375	18th Sept. 1865	Michael Henry.
Railway carriages and other vehicles - - (*operating the breaks.*) (*Communicated by Henry Hudson Trenor.*)	2394	20th Sept. 1865	John Henry Johnson.
Atmospheric buffing apparatus - - -	2520	2nd Oct. 1865	Thomas Williams.
Mechanical arrangements for stopping or retarding railway carriages, waggons and trucks.	2595	9th Oct. 1865	George Voight.
An improved arrangement of buffing and drawing apparatus for railway carriages - -	2840	3rd Nov. 1865	George Wilson. William Kitching Hydes.
Breaks - - - - - - - -	2927	14th Nov. 1865	Joseph Williamson. James Lindley. James Coleman.
An improved arrangement of mechanism for stopping or retarding railway carriages, waggons, trucks or other rail or tram road vehicles -	2942	15th Nov. 1865	Louis Alexis Velu. François Eugène Fosse. Louis Eugène Alphonse Fosse.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RAILWAYS, &c.—*continued.*			
Breaks or apparatus for stopping or retarding railway trains. (*See also* "SIGNALS.")	3386	30th Dec. 1865	David William Thomas.
REAPING, MOWING, MAKING HAY.			
Machinery for mowing and reaping - - (*Communicated by Valérian Ivanovitch Kirchner.*)	200	23rd Jan. 1865	William Edward Newton.
Improvements in reaping-machines, parts of which improvements are also applicable to mowing-machines.	384	11th Feb. 1865	David Henry Barber.
Lawn-mowing machines - - - - -	458	17th Feb. 1865	James Bryce Brown.
Reaping machinery - - - - -	576	1st March 1865	Nicholas Henwood.
Reaping and mowing machines - -	1371	18th May 1865	William Manwaring.
Reaping and mowing machines - - -	1503	1st June 1865	William James Burgess.
Reaping and mowing machines - - -	1660	20th June 1865	Mark Audinwood the younger.
Heating chisels, knives, plane irons, gouges, augers, steels, shears, scythes and saws.	1715	27th June 1865	William Brooks.
Reaping and mowing machines - - -	1815	8th July 1865	Joseph Byford.
Reaping machines - - - - -	1824	10th July 1865	William Scott Underhill. Arthur Hopkins Corden. John Corden.
Lawn-mowing machines - - - - -	2119	16th Aug. 1865	James Bryce Brown.
Reaping and mowing machines - - -	2310	9th Sept. 1865	John Brigham. Richard Bickerton.
Reaping machines - - - - - -	2324	11th Sept. 1865	Charles Thomas Burgess.
An improvement in machines for binding grain - (*Communicated by Albert Goodyear.*)	2422	22nd Sept. 1865	Joseph Sheldon.
Construction of reaping and mowing machines -	2875	8th Nov. 1865	William Manwaring.
Improvements in reaping and mowing machines, part of which is applicable to machinery in general.	3142	6th Dec. 1865	Adam Carlisle Bamlett.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for tackle for grass mowers.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
REFLECTORS FOR LAMPS; REFLECTION OF LIGHT.			
An improved reflecting apparatus for street and other lamps.	342	7th Feb. 1865	Romain De Bray.
Apparatus for holding and regulating the position of lamp shades or reflectors. (*Communicated by Guillaume Pascal.*)	704	13th March 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
REFLECTORS, &c.—*continued.*			
Manufacture of reflectors for lamps and of surfaces for reflecting light generally.	897	30th March 1865	Benjamin Baugh.
Means of communicating and signalling between the passengers, guards and drivers of railway trains.	1078	17th April 1865	George William Garrood.
Reflecting lamps - - - - - -	1268	8th May 1865	William Charles Cropp.
Certain improvements in apparatus for illuminating (*Communicated by Monsieur Louis Joseph Asselin de Monnerville.*)	1269	8th May 1865	Peter Armand Le Comte de Fontaine Moreau.
A new or improved instrument to be employed in examining and facilitating operations in the throat. (*instrument with reflector.*) (*Communicated by Philippe Othon de Clermont.*)	1921	24th July 1865	Richard Archibald Brooman.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward M'Nally.
An improved apparatus for and method of ascertaining the state of sewers, tunnels, drifts or other subterranean works, without descending thereinto, by means of the natural, artificial or magnesium light, part of which apparatus is applicable to levelling purposes.	2446	25th Sept. 1865	Richard William Barnes.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*transparencies for reflectors.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
RETORTS AND CRUCIBLES.			
Apparatus for charging and drawing gas retorts and for other purposes - - - -	142	17th Jan. 1865	Sealy James Best. James John Holden.
Apparatus for distilling petroleum and other volatile liquids and for making gas. (*Communicated by George Hughes Sinclair Duffus.*)	447	16th Feb. 1865	William Edward Newton.
Manufacture of crucibles and pots in which metals or other substances may be melted. (*from plumbago.*)	630	6th March 1865	George Nimmo.
Apparatus for distilling oils and other liquids from coal and other substances. (*Communicated by William George Washington Jaeger.*)	727	15th March 1865	William Edward Newton.
Apparatus for the distillation of coal and peat, and such other substances as are or may be used for the manufacture of solid and liquid volatile hydrocarbons, or for the manufacture of the said hydrocarbons and coke.	796	22nd March 1865	William Mattieu Williams.
Apparatus for distilling hydrocarbons from coal, schists and other minerals.	1076	17th April 1865	Joseph Dougan.
Apparatus used in distilling hydrocarbons - -	1361	16th May 1865	George Walton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
RETORTS, &c.—*continued.*			
Improvements in the retorts used in the manufacture of gas and in other distillations, which improvements are adaptable to evaporating vessels.	1424	25th May 1865	John Ambrose Coffey.
Annealing pots and saucers for annealing iron and steel wire, sheet metal and other articles.	1480	30th May 1865	John Hibell.
An improved method and apparatus for distilling coal shale and other carbonaceous substances. (*Communicated by John Howarth.*)	1553	7th June 1865	James Howarth, M.D.
Improvements in the manufacture of gas retorts and other articles made of fire-clay, and in furnaces for burning the same and for other purposes.	1737	30th June 1865	William Schofield.
Manufacture of pots and crucibles wherein metals and other materials may be heated or melted.	1884	19th July 1865	George Nimmo.
Moulds for casting metallic pipes, retorts and other articles.	2215	29th Aug. 1865	George Robinson.
Improvements in moulding crucibles and other hollow articles of plastic materials, and in apparatus employed therein. (*Communicated by Samuel Maynard.*)	2464	26th Sept. 1865	Richard Archibald Brooman.
An improved mode of decarbonizing retorts - - (*Communicated by George Washington Edge.*)	2465	26th Sept. 1865	Alfred Vincent Newton.
Improvements in producing and combining gases to be used for heating purposes, and in the construction of retorts for producing and combining such gases.	2527	2nd Oct. 1865	Silas Covell Salisbury.
Improvements in the distillation of coal and shale, and in the apparatus employed therein.	2793	30th Oct. 1865	Edward Meldrum.
Improvements in the production or manufacture of gas for heating or illuminating, and in the retorts and apparatus employed in such manufacture.	2965	17th Nov. 1865	James Harbert.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*for making crucibles.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
A new and improved fire pot and retort for stoves, ranges and furnaces in which steam is generated and superheated.	3140	6th Dec. 1865	William Ennis.
An improved retort for distilling or extracting products from cannel, coal, shale or schist, and more especially from the small coal or dust technically known as "slack."	3285	20th Dec. 1865	John Gibbon.
Improvements in the manufacture of steel and purified iron, and in the apparatus employed therein. (*Communicated by Antoine Galy-Cazalat.*)	3300	21st Dec. 1865	Henri Adrien Bonneville.
Improvements applicable to steam-boilers, iron, steel, retort and other furnaces.	3338	26th Dec. 1865	Joshua Fisher.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
ROCKETS; FIREWORKS.			
Rocket guns and rocket harpoons and apparatus to be used therewith, for the capture of whales and other purposes - - - - -	550	27th Feb. 1865	Thomas Welcome Roys. Gustavus Adolphus Lilliendahl.
Rockets - - - - - - -	1103	20th April 1865	William Hale.
A new firework producing instantaneously the forms of serpents and other forms of a like nature. (*Communicated by Frederic Barnett and Charles Albert Roussille.*)	2293	7th Sept. 1865	Frederick Tolhausen.
An improved pyrotechnic toy - - - -	3195	11th Dec. 1865	Thomas King.
A new kind of fireworks of a non-explosable and non-offensive nature, fit to be used in drawing rooms. (*Communicated by Jean Baptiste Ferdinand Fredureau and Henri de Chavannes.*)	3359	28th Dec. 1865	Ernest Oppenheim.
ROPES, CORDAGE, TWINE, OAKUM, WIRE ROPES.			
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Separating fibre from vegetable materials containing the same. (*Communicated by Antonio Meucci.*)	958	4th April 1865	George Tomlinson Bousfield.
Compounds for waterproofing and insulating purposes. (*protecting ropes or cables.*)	1962	29th July 1865	Frederick Augustus Abel.
Improvements in the manufacture of rope, cordage, yarn, wire rope, and other such like twisted and plaited fabrics, and in the machinery employed therein - - - - - - -	2225	30th Aug. 1865	Thomas Cope. William Guest.
Mode of treating the roots of the lucerne plant, for the purpose of manufacturing paper, pasteboard, fabrics and ropes therefrom. (*Communicated by John Peter Caminade.*)	2523	2nd Oct. 1865	Charles Denton Abel.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes.	3318	22nd Dec. 1865	John Alexander Cooper.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*making ropes, cords, &c.*)	3324	23rd Dec. 1865	George Hurn. Daniel Hurn.
For Telegraphic Cables—*see* "TELEGRAPHS."			

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SALT AND SALTPETRE.			
Manufacture of table salt	2087	11th Aug. 1865	Horace Jee.
Manufacture of artificial saltpetre (*Communicated by Jean Vincent Prosper Lagrange.*)	2142	19th Aug. 1865	Isaac Bernhard.
Improvements in the manufacture of salt, and in machinery or apparatus for that purpose.	3105	4th Dec. 1865	Dennis Hall.
SEWING AND EMBROIDERING.			
Sewing-machines and apparatus belonging thereto	2	2nd Jan. 1865	Thomas Antoney Macaulay.
Sewing-machines	13	3rd Jan. 1865	Gustave Mascart.
Certain improvements in sewing-machines and mechanism for driving the same. (*Communicated by Jacob Zuckerman.*)	36	5th Jan. 1865	Alfred Vincent Newton.
Sewing-machines	144	17th Jan. 1865	Charles Tiot Judkins.
Improvements in certain sewing-machine shuttles, and in the mode of and tools for manufacturing the same.	163	19th Jan. 1865	George Francis Bradbury.
Certain improvements in sewing-machines	203	24th Jan. 1865	Alfred Charles François Derocquigny. Dominique Gance.
Sewing-machines (*Communicated by Edmond Philippe and Dominique Gance.*)	304	3rd Feb. 1865	William Clark.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads, andfloating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*driving sewing-machines.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Improvements in connection with sewing and other machines.	334	7th Feb. 1865	Henry Masters.
Improved mechanism for operating the working parts of sewing-machines. (*Communicated by Elias Howe, jun'.*)	370	9th Feb. 1865	Alfred Vincent Newton.
Construction of single thread sewing-machines (*Communicated by Elias Howe, jun'.*)	396	11th Feb. 1865	Alfred Vincent Newton.
Sewing-machines (*Communicated by Elias Howe, jun'.*)	430	15th Feb. 1865	Alfred Vincent Newton.
Sewing-machines	475	20th Feb. 1865	Henry Percy.
Machinery for sewing or uniting leather and other hard substances, particularly applicable to the manufacture of boots and shoes.	484	21st Feb. 1865	Charles Baulch.
Sewing-machines	527	24th Feb. 1865	William Winter.
Sewing-machines	535	25th Feb. 1865	James Starley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SEWING, &c.—*continued.*			
Sewing-machines	551	27th Feb. 1865	Robert Barclay.
Binding attachments for sewing-machines	601	4th March 1865	Henry Everard Clifton. Abraham Hoffnung.
Sewing-machines	766	18th March 1865	Owen Robinson.
Sewing-machinery (*Communicated by David Wood Green Humphrey.*)	776	20th March 1865	Alfred Vincent Newton.
Machinery for sewing and stitching	819	23rd March 1865	Robert Wilson Morrell.
Sewing-machines	830	24th March 1865	Alfred Baillot.
Improvements in sewing-machines, which improvements also involve or comprise a new mode of manipulating the threads of the needle and shuttle in forming the "lock-stitch."	848	25th March 1865	Earle Harry Smith.
Sewing-machines	883	29th March 1865	William Newton Wilson.
An improved guide applicable to sewing-machines	1047	12th April 1865	Frederic Bapty. Edward Brydges Sayers.
Sewing-machines	1166	26th April 1865	John Fairweather. William Fairweather.
Machinery for sewing and embroidering	1167	26th April 1865	George Mumby.
Manufacture of boots and shoes (*Communicated by William Emerson Baker.*)	1318	12th May 1865	George Haseltine.
Sewing-machines	1331	13th May 1865	James Key Caird.
Sewing-machines	1377	18th May 1865	James Laing.
Sewing-machines	1384	19th May 1865	Henry de Mornay.
Sewing-machines	1407	22nd May 1865	James Moore Clements.
Ornamenting table cloths and other articles with embroidery.	1432	25th May 1865	William Madders.
An improvement in sewing-machines, which improvement is also applicable to other machines driven by a strap or band.	1566	8th June 1865	Jabez Draper.
Sewing-machines (*Communicated by Louis Planer.*)	1572	9th June 1865	George Haseltine.
Sewing-machines	1584	12th June 1865	John Glazebrook. Mark Nield Mills. Benjamin Riley Mills.
An improved construction of sewing-machine	1592	12th June 1865	James Hayes.
Sewing-machines	1611	14th June 1865	George Edward Keats. John Keats.
Improved sewing-machinery and stitch formed by the same. (*Communicated by John Jay Sibley.*)	1641	17th June 1865	George Haseltine.
Improvements in sewing-machines and in the machinery or apparatus connected therewith.	1661	20th June 1865	Duncan McGlashan, junr.
Sewing-machines (*Communicated by Thaddeus Hiram Walker.*)	1678	22nd June 1865	George Haseltine.
Improved apparatus for gauging and marking the width of tucks and pleats on fabrics under operation in sewing-machines.	1811	8th July 1865	George Baldwin Woodruff.
Regulating or controlling the power employed in actuating sewing and other machines of a light nature.	1835	11th July 1865	Benjamin Fothergill.
Sewing-machines (*Communicated by John Tarbox.*)	1903	21st July 1865	Richard Mott Wanzer.
Sewing-machines	1904	21st July 1865	Alfred Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SEWING, &c.—*continued.*			
Certain improvements in sewing-machinery (*Communicated by Isaac Merritt Singer.*)	1941	26th July 1865	Alfred Vincent Newton.
Construction of binders for sewing-machines	2033	4th Aug. 1865	George Baldwin Woodruff.
Construction of sewing-machines particularly adapted for sewing sacks and bags	2067	9th Aug. 1865	Barnabas Russ. Edward Gandell the younger.
A new and improved application of imitation embroidery to be employed for the ornamentation of crinolines. (*see* "PRINTING.")	2131	18th Aug. 1865	Richard Clarke.
Improvements in sewing-machines and in winders for sewing-machines	2165	23rd Aug. 1865	Henry Willis. George Rice.
Sewing-machines	2169	23rd Aug. 1865	Daniel Macpherson.
Applying motive-power to sewing-machines, for the purpose of rendering them self-acting.	2218	29th Aug. 1865	Geminiano Zanni.
Ornamenting and protecting the edges of bed quilts, counterpanes, toilet covers, carriage rugs and other similar coverings, by edging, binding or fringing by machinery	2253	1st Sept. 1865	Robert Knowles. Joseph Lindley.
Sewing or stitching machines	2287	6th Sept. 1865	Robert Allee Purkis. George Callaway.
An improved wheel feed for sewing machines	2313	9th Sept. 1865	John Hose.
Sewing-machines (*Communicated by Jean Louis Thenen.*)	2431	23rd Sept. 1865	Edward Thomas Hughes.
Sewing-machines (*Communicated by John Nathaniel Tarbox.*)	2498	28th Sept. 1865	Richard Archibald Broc-man.
An improved sewing-machine (*Communicated by Henry Hudson.*)	2532	3rd Oct. 1865	William Robert Lake.
Sewing-machines (*for making button holes.*) (*Communicated by Joseph Louis Kieffer and Charles Nicolas Erny.*)	2551	5th Oct. 1865	Michael Henry.
Improvements in ruffles or frills composed of strips of fabrics, and in the machinery or apparatus employed for their manufacture.	2579	6th Oct. 1865	Chauncey Orrin Crosby.
Sewing-machines	2649	13th Oct. 1865	George Baldwin Woodruff.
Sewing-machines	2666	16th Oct. 1865	Joseph Buchanan Robert-son.
Sewing-machines (*Communicated by Charles Rhodes Goodwin.*)	2740	23rd Oct. 1865	William Clark.
Improvements in sewing machinery for using waxed thread. (*Communicated by Thomas John Halligan.*)	2748	24th Oct. 1865	Alfred Vincent Newton.
Improvements in the construction and arrangement of sewing-machines, and in the apparatus employed therein	2784	28th Oct. 1865	William Westmoreland. Edwin Westmoreland.
Cabinet furniture (*sewing-machine cabinets.*)	2901	11th Nov. 1865	Daniel Slater.
Apparatus for threading needles (*Communicated by Frederick Emile Texier and Victor Texier.*)	2925	14th Nov. 1865	Henri Adrien Bonneville.
Sewing-machines (*Partly communicated by George Snieder.*)	2974	18th Nov. 1865	Henry Clifton.
Sewing-machines	2988	20th Nov. 1865	James Pitt.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SEWING, &c.—*continued.*			
Improvements in sewing-machines and in sewing or embroidering.	3079	1st Dec. 1865	Isaac Merritt Singer.
Sewing-machines	3086	1st Dec. 1865	Henry Hedley. George Ainsley.
Improved machinery for manufacturing sewing-machine needles (*Partly communicated by Joseph Thorne.*)	3143	6th Dec. 1865	Nahum Salamon. William John Lawrence Davids.
Improved arrangement of the parts in sewing-machines, for using wax thread for sewing on the soles of boots and shoes.	3170	9th Dec. 1865	William Jackson.
Improvements in sewing-machine shuttles, and in the winding or reeling of the thread employed with them.	3205	12th Dec. 1865	Marc Klotz.
Sewing-machines	3217	13th Dec. 1865	James Henry Smith.
An improved method of applying wax to the threads used in sewing-machines. (*Communicated by Job Dawley and John Blocker.*)	3240	14th Dec. 1865	William Robert Lake.
SHIP AND BOAT BUILDING, SHEATHING, REPAIRING, WORKING, LOADING AND UNLOADING; MASTS, SPARS, &c.			
Apparatus for examining, cleaning and repairing the bottoms and sides of ships while afloat, which apparatus is also applicable for other purposes.	105	12th Jan. 1865	Rudolph Frederick Moll.
Ship-building	137	16th Jan. 1865	Joseph Betteley.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes. (*unloading ships.*)	174	20th Jan. 1865	Louis Balma.
Improvements in cleansing ships' bottoms at sea, and in the machinery, apparatus or means connected therewith.	225	26th Jan. 1865	John Harrison.
Applying power to the working of ships' windlasses, winches, capstans, pumps and other ships' gear.	242	27th Jan. 1865	Handel Moore.
Coating the bottoms and sides of ships and other submerged structures, to prevent fouling and decay.	284	1st Feb. 1865	John Moysey.
Construction of armour plated ships, forts and other like structures.	286	1st Feb. 1865	John Hughes.
Improvements in armour plated ships, forts, gun carriages and works of defence, and in fastenings to be employed therein.	292	2nd Feb. 1865	Charles Lungley.
Improvements in armour plated and other ships or vessels, also applicable to fortifications generally.	296	2nd Feb. 1865	Julius Saunders Jeffreys.
An improved varnish for preserving wood, and for protecting iron ships and other metal work from oxydation and from fouling. (*Communicated by Adolphe Guibert.*)	315	4th Feb. 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP-BUILDING, &c.—*continued.*			
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Ships and vessels - - - - - -	337	7th Feb. 1865	Raymond Brassens. François Alexandre Le Mat.
Improvements in apparatus for discharging coals and other cargo from ships' holds, applicable also to the raising and transferring of weights from one point to another - - - - -	359	8th Feb. 1865	George Elliot. Henry Coxon.
Protecting wooden surfaces from the fouling and injury to which they are ordinarily liable in sea water. (*ships' bottoms.*)	363	9th Feb. 1865	John Cornelius Craigie Halkett.
Improvements in buoys, beacons, floats or pontoons, which improvements are also applicable to floating bodies generally - - - -	387	11th Feb. 1865	Charles Atherton. Amherst Hawker Renton.
Apparatus for giving alarms - - - - - (*of leakage in ships.*)	392	11th Feb. 1865	Charles West.
An improved blowing apparatus - - - - (*for ship builders.*)	427	15th Feb. 1865	Samuel Richards Freeman. Abraham Grundy.
Construction of armour plated ships - - - - (*Communicated by Charles Otis Holyoke.*)	438	15th Feb. 1865	George Tomlinson Bousfield.
Armour plates for vessels of war and for other similar purposes.	455	17th Feb. 1865	John Brown.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Improvements in the construction of beams or supports applicable to the building of bridges, viaducts, roofs, arches and ships, and in instruments to be used therein.	578	1st March 1865	William Edward Kochs.
Improvements in coatings for the prevention of the fouling to which iron and other ships and structures are ordinarily liable in sea water.	624	6th March 1865	Francis Cruickshank.
Improvements in coating the bottoms of iron ships and other surfaces, to prevent oxidation, the adhesion of marine animals and plants, and in compositions to be therein employed.	681	10th March 1865	Richard Percy Roberts.
Differential wheel gearing - - - - - (*for capstans.*)	744	17th March 1865	John Standfield.
Improvements in vessels of war and in ordnance -	783	21st March 1865	William Vincent Greene.
Certain improvements in machinery and appliances for the manufacture of nails, pins and rivets - (*boat nails.*)	785	21st March 1865	Charles Farmer. Thomas Turner.
Cabin furniture for ships and other vessels - - (*see* "FURNITURE.")	829	24th March 1865	Charles Bevan.
Construction of ships' yards and spars - -	873	28th March 1865	Terrot Glover, jun'.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP-BUILDING, &c.—*continued.*			
An improved safety tackle for raising and lowering heavy weights. (*on board vessels.*)	937	3rd April 1865	Pierre Joseph Jamet.
Building barges, ships and other vessels - -	964	5th April 1865	John Bethell.
Protecting iron ships and other submerged structures from oxidation and corrosion.	970	5th April 1865	Edward Ritherdon.
An improved composition for preventing the fouling of ships and other vessels. (*Communicated by William Bolivar Davis.*)	1008	8th April 1865	George Davies.
A new and useful or improved mode of connecting a gaff to the mast of a navigable vessel.	1067	15th April 1865	Charles Robinson Fisher.
Construction of ships or vessels or cars to float on water.	1083	18th April 1865	William Bedder.
Improvements in the construction of ships of war and floating batteries, part of which improvements are applicable to land fortifications.	1107	20th April 1865	Henry Caudwell.
Securing or fastening wooden planking to iron frames in ships or vessels, and also to the outside of iron ships.	1162	25th April 1865	William Husband.
Machinery for cutting or shaping masts, spars and other beams and articles of wood.	1179	27th April 1865	Samuel Harvey.
Improvements in iron fortifications, such improvements being applicable to the construction and protection of ships and floating batteries.	1209	1st May 1865	George Johnson.
Improving and strengthing shields of steel, iron or other material for ships, fortifications and other constructions.	1225	2nd May 1865	Thomas Hay Campbell.
An improved composition for coating iron or other vessels, and for other similar purposes.	1278	9th May 1865	John Cornelius Craigie Halkett.
Production and application of electricity - - (*for preventing the fouling of ships' bottoms.*)	1412	23rd May 1865	Henry Wilde.
Improved machinery for loading and discharging cargo from ships and other vessels - -	1449	26th May 1865	George Elliot. Robert Pattison Clark.
Composition and manufacture of paints applicable to iron and other ships' bottoms, and for other general purposes.	1489	31st May 1865	Thomas Spencer.
Manufacture of carpets and other terry and cut pile fabrics. (*when worn will serve as deck covers.*) (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Sheathing or coating the bottoms of ships or vessels	1567	8th June 1865	Barnet Solomon Cohen.
A new or improved apparatus for the purpose of stopping and easing strains on ships' cables when in use.	1608	14th June 1865	Charles de Vendeuvre.
Sheathing iron ships - - - - -	1612	14th June 1865	William Robinson Mulley.
Life boats - - - - - - - (*Communicated by Louis Prosper Reynaud.*)	1688	24th June 1865	Henri Adrien Bonneville.
Appartus for the decantation and raising of petroleum and other oils. (*loading and unloading ships.*)	1724	28th June 1865	Paul Jacovenco.
Oars, paddles, rowlocks, seats and fittings for boats and vessels.	1731	29th June 1865	John Cox.
Improvements in tubular structures rendering them specially applicable for ships' masts and buildings purposes.	1755	3rd July 1865	Edward Deane.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP-BUILDING, &c.—*continued.*			
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes - -	1775	5th July 1865	John Longbottom. Abram Longbottom.
Preparation of paints - - - - (*used for coating ships' bottoms.*)	1807	7th July 1865	George Fentiman.
Constructing ships and vessels - - -	1817	8th July 1865	Christopher Oswald Papengouth.
A new and improved mode of elevating ships or boats in the water, to enable them to pass over sand bars, shallows and the like, and for raising sunken vessels and docks.	1838	12th July 1865	Thomas Cato M^c^Keen.
An improved composition for coating ships' bottoms, and the surfaces of other vessels or structures which are exposed to the action of sea water - - - - - -	1943	26th July 1865	Frederick Pulman. Richard Ginman.
Applying and utilising water power - - (*for discharging cargoes.*)	1967	29th July 1865	Valentine Baker.
An improvement in ejectors for discharging bilge water and for other purposes. (*Communicated by Nathan Leffingwell Chappell and Blase Lorillard.*)	1981	31st July 1865	Alfred Vincent Newton.
An improved composition for coating the bottoms of iron and wooden ships, by which the same are preserved from fouling and the iron from corrosion, whether internally or externally, by sea or other water or moisture, which is applicable to iron of any kind exposed to the action of moisture.	1986	1st Aug. 1865	William La Penotière.
Iron knees and riders for ships' fastenings, and iron frames for wood and iron ships.	2010	3rd Aug. 1865	Peter Cato.
Apparatus and fittings to be used in ships, for facilitating the loading, unloading and stowage of their cargoes. (*Communicated by Gilbert Auguste Fournier des Corats.*)	2048	7th Aug. 1865	William Clark.
A new or improved composition for coating iron or wooden ships' bottoms.	2120	16th Aug. 1865	Samuel Parry.
An improved apparatus to facilitate the cleansing and examination of the bottoms of ships and other submerged structures.	2162	22nd Aug. 1865	Derwas Owen Jones.
Floating lights, beacons, floating batteries and other vessels.	2173	24th Aug. 1865	John Moody.
Life rafts and surf boats - - - - (*Communicated by Edward Livingston Perry.*)	2273	4th Sept. 1865	Alfred Vincent Newton.
Machinery or apparatus for raising and lowering heavy bodies - - - - - (*discharging cargoes.*)	2276	5th Sept. 1865	John Campbell Evans. William Fairlie.
Treating, working or manipulating cast steel, for the manufacture of wheel-tires, armour plates, or other articles requiring great hardness and tensile strength.	2277	5th Sept. 1865	Julien Grand.
Floating vessels, and apparatus used for unloading vessels containing coals, corn or grain - -	2302	7th Sept. 1865	William Cory. John Henry Adams, C.E
Mounting and working guns in ships, forts and batteries.	2306	8th Sept. 1865	John Walker.

Subject-matter of Patent.	Number of Patent.	Date	Name of Patentee.
SHIP-BUILDING, &c.—*continued.*			
Improvements in cleansing and coating the bottoms of ships and other submerged surfaces, to prevent oxidation and the adhesion of marine animals and plants, also in compositions to be employed for these purposes.	2316	9th Sept. 1865	Richard Percy Roberts.
Floating dry docks - - - - -	2387	19th Sept. 1865	Edwin Clark.
Life-rafts - - - - - - -	2510	30th Sept. 1865	John Witherden Hurst.
Ships' water-closets - - - - -	2546	4th Oct. 1865	Edwin William De Rusett. Richard Farrell Dale.
Manufacture of bricks and other analogous materials. (*for naval construction.*)	2571	6th Oct. 1865	Victor Jean Baptiste Germaix.
Means employed for cleansing the bottoms of ships or vessels.	2589	7th Oct. 1865	Thomas Matthew Gisborne.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating hulls of ships.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.
A certain composition having anti-corrosive and anti-fouling properties, for the preservation of and keeping clean the bottoms of iron vessels, and also for the preservation of iron submerged and iron structures exposed to the action of the atmosphere or water - - - - -	2653	14th Oct. 1865	William Jardine Combe MacMillan. James Mason. John Vickers Scarborough.
New or improved means and apparatus for destroying ships and such like floating bodies, parts of which said apparatus are also applicable to saving life and property at sea. (*Communicated by Monsieur Stanislas Sorel.*)	2758	26th Oct. 1865	Hector Auguste Dufrené.
An improved coating for covering the bottoms of iron and steel ships and other navigable vessels and marine works, to prevent oxidation and the adhesion of animal and vegetable matter thereto.	2791	30th Oct. 1865	Robert Doyne Dwyer.
An improved method of sheathing iron vessels -	2832	2nd Nov. 1865	Edwin Clark.
Means of preventing vessels from sinking, which means are also applicable for raising sunken vessels.	2851	4th Nov. 1865	Thomas Page
A new and improved cement - - - - (*for lining iron vessels.*)	2868	7th Nov. 1865	Thomas Grason. James O'Donoghue.
Construction of ships - - - -	2982	20th Nov. 1865	John Weems.
Protecting the bottoms and sides of ships and other structures exposed to the action of sea water.	3000	22nd Nov. 1865	Cowper Phipps Coles.
Planking or sheathing iron ships and iron framed ships.	3012	23rd Nov. 1865	William Robinson Mulley.
Improvements in the hulls and tackle of navigable vessels, and in the gear for propelling the same by wind and steam or other motive-power engine, and clearing the same from water, and in apparatus connected therewith to enable the said vessels to be converted in floating graving docks, or lifts for raising vessels and other submerged or partially submerged heavy bodies to or above the surface of the water.	3031	25th Nov. 1865	John Ferrier.
Construction of ships' parrels - - - (*see* "SHIPS' RIGGING.")	3039	27th Nov. 1865	John Manifold.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIP-BUILDING, &c.—*continued.*			
Construction of ocean steamers and paddle wheels for propelling the same, which paddle wheels are also applicable to the propulsion of other steam vessels.	3090	2nd Dec. 1865	Isaac Merritt Singer.
Apparatus for cleansing ships' bottoms - -	3220	13th Dec. 1865	Henry Frederick M^c^Killop.
Constructing and mooring floating structures -	3265	18th Dec. 1865	Charles Liddell. Robert Stirling Newall.
Apparatus to facilitate the cleansing, examination and repair of the bottoms of ships and other submerged structures.	3313	22nd Dec. 1865	James Anderson.
Pipes, tubular columns and hollow structures, for masts, oars, shear legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required.	3314	22nd Dec. 1865	Edward Deane.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for fender lines.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Means of applying copper or alloys of copper to the bottoms and sides of navigable vessels built of iron, steel or homogeneous metal.	3339	26th Dec. 1865	William Francis Deane.
Construction of sea going vessels - - -	3352	28th Dec. 1865	Norman Willis Wheeler.
For Ships' Logs, *see* "MEASURING PROGRESS." For Sounding Apparatus, *see* "DO." For Ships' Pumps, *see* "PUMPS." For Graving Docks, *see* "DOCKS." For Rudders, *see* "STEERING." For Anchoring Ships, *see* "SHIPS." For Ventilating Ships, *see* "VENTILATION." For Lighting Ships, *see* "LAMPS." For Ships' Compasses, *see* "COMPASSES."			
SHIPS' BOATS (*Lowering and Disengaging*).			
Apparatus for lowering boats and disengaging them from their tackle.	210	25th Jan. 1865	Thomas Steel.
Improved apparatus for the instantaneous lowering and detaching of ships' boats.	890	29th March 1865	Alexander Chaplin.
Apparatus for sustaining and lowering ships' boats -	2041	5th Aug. 1865	Cortland Herbert Simpson.
SHIPS' RIGGING AND SAILS; REEFING AND FURLING SAILS; SHIPS' RIG.			
Reefing and furling sails - - - - -	83	11th Jan. 1865	Henry Coutanche.
Reefing and furling sails - - - - -	148	18th Jan. 1865	Anders Bolærn Büll.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIPS' RIGGING, &c.—*continued.*			
Sewing-machines - - - - - (*for making sails.*) (*Communicated by Edmond Philippe and Dominique Gance.*)	304	3rd Feb. 1865	William Clark.
A new and useful or improved mode of connecting a gaff to the mast of a navigable vessel.	1067	15th April 1865	Charles Robinson Fisher.
Manufacture of malleable iron sheaves and bushes for pulley blocks - - - - -	1085	19th April 1865	Joseph Gardner. Richard Lee. George Henry Wain. Samuel Hargrove. Charles Hargrove. Samuel Hargrove, jun^{r}.
Rigging of sailing boats and vessels - -	1670	21st June 1865	William Charles Rickman.
Construction of sewing-machines particularly adapted for sewing sacks and bags - - (*and for sewing sails.*)	2067	9th Aug. 1865	Barnabas Russ. Edward Gandell the younger.
Means of attaching and detaching the sails of navigable vessels to and from the stays, yards and other fittings connected therewith.	2777	28th Oct. 1865	James Murray. Charles Wells.
Ships' and pulley blocks for general purposes -	2884	8th Nov. 1865	Thomas Westley. Walter Bibby.
Construction of ships' parrels - - -	3039	27th Nov. 1865	John Manifold.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for rigging sails, cables, halyards, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
SHIRTS, COLLARS, WRISTBANDS, NECK-TIES, CRAVATS, SCARFS, DRAWERS, HOSE.			
Apparatus for securing studs in shirt fronts and similar garments.	175	20th Jan. 1865	Charles Searle.
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks - -	399	13th Feb. 1865	David Barr. William Henry Page. James Clement Newey.
Paper and cloth-lined paper collars for ladies and gentlemen.	556	28th Feb. 1865	Solomon Sally Gray.
Manufacture of stockings and other articles of hosiery.	725	15th March 1865	Henry Owen.
Improved machinery for manufacturing paper and cloth-lined paper collars for gentlemen and ladies.	769	20th March 1865	Solomon Sally Gray.
Gentlemen's scarves - - - - -	773	20th March 1865	Matthew Eley.
Manufacture of yarn so as to render same applicable as a substitute for woollen yarn, for manufacturing into shawls and other textile fabrics.	774	20th March 1865	Isidor Philippstal.
Means of ornamenting linen cuffs and collars -	1010	8th April 1865	Joseph Debnam.
Manufacture of dress shirts and dresses made by means of the stocking frame.	1188	28th April 1865	Edward Moore.
A new and improved kind of shirt - -	1465	29th May 1865	Henry Tipper.
Improvements in paper or cloth-lined paper collars, and in the machinery for manufacturing the same.	1537	5th June 1865	James Atkins Woodbury.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHIRTS, &c.—*continued.*			
An improved machine for curling or curving collars and cuffs.	1589	12th June 1865	George Speight.
An improved arrangement for fastening shirts, collars and other articles of wearing apparel, by which the ordinary button or stud is dispensed with. (*see* "BUTTONS.")	1615	15th June 1865	Stanislaus Helcman.
An improved description of stud for fastening shirts, cuffs, waistcoats and other articles of wearing apparel. (*see* "BUTTONS.")	1616	15th June 1865	Stanislaus Helcman.
An improved shirt front - - - - (*Communicated by Evelin French.*)	1725	28th June 1865	William Edward Newton.
Manufacture of collars and cuffs - - - (*Communicated by Henri Lucien Girard.*)	1741	30th June 1865	Richard Archibald Brooman.
An improved manufacture of scarfs, cravats and ties	2046	7th Aug. 1865	William Crosher. George Crosher.
Stockings - - - - - - -	2177	24th Aug. 1865	Frederick Ayckbourn.
Shirts and other like garments - - -	2254	1st Sept. 1865	John Money Carter.
Articles of wearing apparel - - - (*collars.*)	2317	9th Sept. 1865	Richard Charles Newbery.
Improvements in ruffles or frills composed of strips of fabrics, and in the machinery or apparatus employed for their manufacture.	2579	6th Oct. 1865	Chauncey Orrin Crosby.
Certain new and useful improvements in shirt collars and bosoms - - - - (*Communicated by Celius Edgar Richards.*)	2627	12th Oct. 1865	Vernon Augustus Messinger. Virgil Jackson Messinger.
Bows or ties for articles of dress - - -	2975	18th Nov. 1865	Isaac Lazarus.
Certain improvements having reference to shirt collars, and mechanism for manufacturing the same.	3065	29th Nov. 1865	George Knowles Snow.
Obtaining and employing continuous length of tanned leather for various useful purposes - (*for stockings, drawers, shirts, neckties, scarfs, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
SHOT, SHELL, BULLETS AND OTHER PROJECTILES; TORPEDOES.			
Improvements in the construction of shells, and in the explosive powder and fuse to be used therewith and for other purposes.	136	16th Jan. 1865	John Berkeley Cotter.
Projectiles - - - - - - -	171	20th Jan. 1865	George Adams Clark.
Improvements in fire-arms and in ammunition for the same.	188	21st Jan. 1865	Jacob Snider, jun^{r}.
A self adjusting lever powder and shot charger for fire-arms.	302	3rd Feb. 1865	William Bartram.
Cannon shot and shells - - - - -	346	7th Feb. 1865	Raphael Brandon.
An improvement in the manufacture of patched balls for fire-arms.	367	9th Feb. 1865	Milo Peck.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHOT, &c.—*continued.*			
Projectiles and cartridges for central fire breech-loading fire-arms and ordnance.	932	3rd April 1865	Johann von der Poppenburg.
An improved machine for rounding and polishing shot, shell and other balls or spheres. (*Communicated by William Davis Winsor.*)	952	4th April 1865	William Clark.
Improvements in breech-loading fire-arms and ordnance, and in projectiles.	1177	27th April 1865	James Carr.
An improvement in igniting the fuses of shells (*Communicated by Thomas Taylor.*)	1211	1st May 1865	John Blackie, jun^{r}.
Improvements in the mode of rifling muzzle-loading cannon, and in projectiles for the same. (*Communicated by John Seipel.*)	1332	13th May 1865	William Spence.
Fuses and projectiles for rifled ordnance (*Communicated by Benjamin Berkley Hotchkiss.*)	1552	6th June 1865	George Haseltine.
Fuses for shells for ordnance (*Communicated by Frederika Schenkl.*)	1595	13th June 1865	George Haseltine.
Improvements in breech-loading fire-arms and in the charges and projectiles to be used therewith.	1894	20th July 1865	William La Penotière.
Fuses for shells	1989	1st Aug. 1865	Andrew Noble.
Improvements in revolving fire-arms, in projectiles and cartridges.	2106	15th Aug. 1865	James Broun.
An improved construction of projectile (*Communicated by Orazio Lugo.*)	2381	18th Sept. 1865	Alfred Vincent Newton.
Improvements in rifling fire-arms, and in missiles or projectiles used in such, and in the machinery for the production of these improvements.	2488	28th Sept. 1865	William Ellis Metford.
Improvements in breech-loading guns and in projectiles and cartridges.	2512	30th Sept. 1865	Edward Lindner.
Sabots for projectiles	2633	12th Oct. 1865	Henry Headly Williams.
Improvements in central fire breech-loading fire-arms, and in ammuninition for the same (*tinned iron bullets.*)	2709	20th Oct. 1865	Joseph Needham. George Henry Needham.
Certain improvements in projectiles	2757	26th Oct. 1865	Alfred Krupp.
Projectiles	2831	2nd Nov. 1865	Charles Frederic Henwood.
Preparing the ammunition or charges for rifled ordnance and rifled fire-arms.	2856	4th Nov. 1865	Joseph Whitworth.
Fire-arms and projectiles	2902	11th Nov. 1865	Charles William Jones.
Improvements in casting iron and steel and in apparatus employed for this purpose. (*shot and shells.*)	3018	24th Nov. 1865	Joseph Whitworth.
Improvements in the applications of electricity for the testing and discharge of torpedo mines, either on land or at sea, and in the apparatus connected therewith. (*Partly communicated by Matthew Fontaine Maury.*)	3154	8th Dec. 1865	Nathaniel John Holmes.
Improvements in breech-loading fire-arms and in ammunition for the same. (*see* "CARTRIDGES.")	3249	15th Dec. 1865	James Aston.
Igniting shells and similar projectiles	3275	19th Dec. 1865	Charles Ambrose M^{c}Evoy.
An improved projectile for rifled cannon or ordnance.	3278	19th Dec. 1865	Edward Augustus Dana.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SHOW-CASES, EXHIBITING GOODS FOR SALE, SHOP SAFES, FRONTS AND COUNTERS; NAME PLATES, STREET NAME INDICATORS.			
Window safes for the protection of property -	326	6th Feb. 1865	Robert Shaw.
Certain improved means for holding, attaching or suspending fancy articles as exposed in bazaars, show rooms or shop windows, for sale, as well as the providing of means for portably fitting or holding the price ticket to such articles, a modification of which arrangement is also applicable for holding and filing papers, or other purposes - - - - - -	505	23rd Feb. 1865	William Westbury. Thomas Wathen.
Shop and other counters and surfaces on which money is placed in passing it from one person to another.	567	28th Feb. 1865	Sydney Whiting.
Protecting letters, numerals and ornamental designs on glass.	1111	21st April 1865	David Simson Buchanan.
Improvements in the manufacture and application of devices and representations to tombstones, and in other public or exposed situations, for various purposes - - - - - - (*for placards.*)	1130	22nd April 1865	Alfred Grainger. Charles Mitchel Girdler.
Construction of shop fronts and other similar parts of buildings.	2054	8th Aug. 1865	William Reid Corson.
An improved method or mode of indicating the names of streets and other places.	2739	23rd Oct. 1865	John Murray.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.
Construction of show-cases, picture-frames, house and shop furniture and fittings, and other similar articles.	3364	29th Dec. 1865	David Vogl.
SIFTING, SORTING, SEPARATING.			
Apparatus for hulling grain and for reducing granular substances.	38	5th Jan. 1865	Gustav Adolph Buchholz.
Improved machinery for cutting, sifting, separating, bruising, sacking and preparing straw and other vegetable fibrous substances to be employed in the manufacture of various kinds of paper, and also for preparing food for cattle - - -	340	7th Feb. 1865	John Cornes. William Simpson.
An improved apparatus for separating grain - (*Communicated by Henry Francis Hart.*)	348	7th Feb. 1865	William Edward Newton.
Separating wool from refuse mixed fabrics and materials.	511	23rd Feb. 1865	Samuel Saville.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIFTING, &c.—*continued.*			
Apparatus for treating metals and metallic ores -	697	13th March 1865	Robert Martin Roberts.
Improvements in drying and sorting coals, peat and mineral ores, in separating extraneous matters therefrom, and in apparatus used in those processes.	715	14th March 1865	Ferdinand Henry Warlich.
Machinery for thrashing and rubbing barley and other grain.	793	21st March 1865	Bernard James Webber.
Improvements in the treatment of meal and the dressing of flour, and the machinery and apparatus employed therein. (*bran separators.*)	898	30th March 1865	William Savory.
New or improved apparatus for separating or sorting and washing ores, minerals, coal, emery, and other substances in a granular or pulverulent state. (*Communicated by Charles Prieger and Theodor Hundt.*)	963	5th April 1865	Henry Simon.
Apparatus for screening, sifting or riddling corn, grain and seed.	1105	20th April 1865	William Beaven.
A mode of obtaining decoctions and apparatus for carrying the same into effect. (*Communicated by Benjamin Green Martin.*)	1227	2nd May 1865	Francis Wise.
Manufacture of gun cotton cartridges for cannon and small arms.	1300	10th May 1865	Julian John Révy.
Machinery for separating or sorting fibres and filaments of different lengths, and forming them into a lap or fleece. (*Communicated by Charles Simon.*)	1430	25th May 1865	Richard Archibald Brooman.
An improved apparatus for separating the whey from the curd in the manufacture of cheese.	1535	5th June 1865	Philip Coombes.
An improved apparatus for sifting flour and other substances. (*Communicated by Howard Tilden.*)	1568	8th June 1865	George Haseltine.
Corn screens - - - - - -	1625	15th June 1865	John Hartley.
Separating gold from ores containing copper and gold.	1855	14th July 1865	Andrew Edward Molin.
An improved process of preparing sea weeds and other vegetable substances for the production of artificial guano, felt, alkaline salts and iodine.	1877	19th July 1865	Donald McCrummen.
Process and machinery for producing fibre suitable for being spun, from rags or remnants of woven or other textile fabrics made of silk, wool, cotton or other fibrous materials.	1881	19th July 1865	Henry Ernest Gilles.
Separation of sulphide of iron from coal and carbonaceous matter.	2252	1st Sept. 1865	Thomas Lomas.
Machinery or apparatus for hulling and winnowing grain. (*Communicated by Friedrich Henckel and Wilhelm Seck.*)	2300	7th Sept. 1865	William Lloyd Wise.
Construction of hydrostatic presses - - (*for separating liquids from solids.*)	2304	8th Sept. 1865	John Weems. William Weems.
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron -	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Machinery for tempering and preparing peat for fuel. (*Communicated by Nathaniel Frothingham Potter.*)	2469	26th Sept. 1865	George Tomlinson Bousfield.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIFTING, &c.—*continued.*			
An improved method of and apparatus for separating ashes from cinders.	2667	16th Oct. 1865	James Lamb Hancock.
Preparation of meat for food - - - - (*sifting powdered dry meat.*)	2677	17th Oct. 1865	Arthur Hill Hassall, M.D.
A new or improved sifter for sifting cinders, slack and gravel, and for other like purposes.	2689	18th Oct. 1865	Charles Henry Cope.
Machinery for screening, tempering and moulding clays and earths into bricks, tiles, and other articles.	2728	21st Oct. 1865	Isaac Roberts.
Improved machinery to be used in the manufacture of paper. (*sieves.*) (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*assorting.*) (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
An improved machine for dressing, sifting, cleaning and polishing fruit, coffee, grain and other matter, parts of which are applicable to coffee sifting, roasting, cooling and cleaning, and other purposes.	3133	6th Dec. 1865	Edwin Whele.
Apparatus for screening grain, seed, rice, tea and other materials.	3239	14th Dec. 1865	Henry William Miller.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for screens, sieves and strainers.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores, and various other matters.	3344	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.
SIGNALS, ALARMS, COMMUNICATING APPARATUS.			
Improved means of communication between the passengers and guard, and between the guard and driver of a railway train in motion.	30	5th Jan. 1865	Charles Pickworth.
Apparatus used in train signalling on railways -	52	6th Jan. 1865	Edward Tyer.
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
An improved apparatus for communication between railway passengers and guards.	97	12th Jan. 1865	Isaac Goodlad.
Improvements in tills and the means of securing and checking money taken by servants.	104	12th Jan. 1865	George Gaze.
A new or improved kind of signal for communicating between persons travelling in railway carriages and the guards or conductors or other officials in charge for the time of the train of which such carriages form part.	107	12th Jan. 1865	John Burd Hill.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Improved apparatus to be employed for communicating between the passengers and guard of a railway train.	121	14th Jan. 1865	Richard Lea.
Fog and storm signals, buoys and spindles - - (*Communicated by William Smith Sampson.*)	125	14th Jan. 1865	Theodore Bourne.
Machinery or apparatus for working switches and signals of railways.	147	18th Jan. 1865	William Jeffreys.
Apparatus for facilitating communications between passengers, guards and drivers in railway trains.	179	20th Jan. 1865	William Mather.
Improved apparatus and means for giving alarm in case of fire, applicable in part as improvements in alarms or alarums generally.	267	31st Jan. 1865	Matthew Cartwright.
New or improved apparatus for effecting communication between the passengers, guards and engine drivers of railway trains, by night or by day.	289	2nd Feb. 1865	John William Gray.
Enabling the passengers in railway carriages to give certain signals to the guard and engine driver, in case of danger or necessity.	290	2nd Feb. 1865	Edwin Whittaker.
A new or improved signal applicable to railways, ships, telegraphs and other such like purposes.	357	8th Feb. 1865	Alfred Warn Banks.
Apparatus for communicating between the passengers, guard and engine driver of a railway train.	378	10th Feb. 1865	Arthur Cordy Edwards.
Apparatus for giving alarms - - -	392	11th Feb. 1865	Charles West.
Apparatus for working and controlling railway switches, points and signals.	432	15th Feb. 1865	Michael Lane.
A fog or other signal for the prevention of collisions at sea or on rivers or canals, or on land - -	445	16th Feb. 1865	Henry Clifton Cleaver. Joseph Cleaver.
New or improved indicating apparatus for the protection of railway passengers, buildings, rooms, safes and other objects - - -	472	18th Feb. 1865	Leicester William Glen Rowe. Adolphe Baab.
Construction of electro-magnetic apparatus for railway signalling and other purposes - -	488	22nd Feb. 1865	Charles Vincent Walker. Alfred Owen Walker.
Signalling between passengers and guard or driver in railway trains.	504	23rd Feb. 1865	Godfrey Sinclair.
Communicating with the guard of a railway train by means of a folding foot board.	530	24th Feb. 1865	George Score.
Signalling on railways - - -	539	25th Feb. 1865	William Calvert.
Apparatus or bell alarms to facilitate the communication between passengers and guards of railway trains, which said apparatus is equally applicable to apartments and other similar purposes.	545	27th Feb. 1865	Ferdinand Dancart.
Improvements in signalling apparatus specially applicable to signalling on board ship. (*Communicated by John Blackie.*)	553	27th Feb. 1865	John Blackie, jun^{r}.
Improved apparatus for the protection of houses and property from burglars, parts of the invention being applicable for other purposes.	619	6th March 1865	Cromwell Fleetwood Varley.
An improved burglary alarum - - -	664	9th March 1865	William Henry Hudson.
An improved mode of and apparatus for ascertaining and indicating the presence of explosive gases.	668	9th March 1865	George Frederick Ansell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Apparatus for enabling the passengers in a railway train to communicate with the guard.	679	10th March 1865	Albert Westhead.
Improvements in and connected with levers for railway switches and signals.	709	14th March 1865	James Deas.
Improvements in working railway signals, and in the machinery or apparatus connected therewith.	740	16th March 1865	Robert Bell.
Improvements in the means of communicating signals from passengers in railway trains to the guards and engine drivers.	839	24th March 1865	John Charles Stovin.
Improved means of communication between the passengers, guard and engine driver of a railway train, part of which said improvements is also applicable for the prevention or detection of burglary.	847	25th March 1865	Alice Isabel Lucan Gordon
An improved mode of and apparatus for communicating or signalling between the guards, passengers and drivers of railway trains.	858	27th March 1865	Herbert John Waldock.
Telegraphic apparatus - - - - (*Communicated by Albert Auguste Daussin de Nalinne.*)	910	31st March 1865	Henri Adrien Bonneville.
Further improvements in the means of communicating signals from passengers in railway trains to the guards and engine drivers.	929	1st April 1865	John Charles Stovin.
Conducting electricity for communicating or transmitting signals and alarms in the event of burglary, fire, railway accidents and other purposes - - - - -	975	6th April 1865	John Samuel Watson. Albert Horwood.
Means for communicating between the passengers and guards of railway trains, or between two or more different situations. (*Communicated by Thomas Hunt.*)	1030	11th April 1865	John Henry Johnson.
Apparatus for signalling on railway trains - -	1055	13th April 1865	Albert Westhead.
Means of communicating and signalling between the passengers, guards and drivers of railway trains.	1078	17th April 1865	George William Garrood
Improvements in and apparatus for communicating intelligence by means of electricity - -	1088	19th April 1865	Ralph Augustine Jones Joseph Hedges.
Indicators and fastenings for water-closets and other purposes	1096	20th April 1865	Henry Kindon Taylor.
Apparatus for communicating and signalling between passengers, guards and drivers of railway trains, by day or by night - -	1097	20th April 1865	David Hancock. Thomas Evans.
An improved lamp or signal for calling cabs or other vehicles, by day and night.	1113	21st April 1865	Edward Wilson.
Apparatus for making communications from one part of a building to another.	1143	24th April 1865	John Joseph Parkes.
Improvements in self-acting alarms for indicating excess of heat or cold, parts of which improvements are applicable to the transmission of messages. (*Communicated by Charles Dion.*)	1223	2nd May 1865	John Henry Johnson.
Means and apparatus for producing or effecting fog signals.	1256	5th May 1865	Edward Richadson.
Machinery for transmitting and receiving signals - (*Communicated by Count Amhjorn Pietro Sparre.*)	1258	5th May 1865	Alexander Horace Brandon.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Means of communication between the passengers and guard or the guard and driver of railway trains.	1265	6th May 1865	Sanders Trotman.
A combined safety valve regulator, pressure gauge, water indicator, alarm and "blow off" for steam generators. (*Communicated by Peter Riordan.*)	1305	11th May 1865	John Henry Johnson.
Means or method of effecting communication between passengers, guard and engine driver of railway trains whilst in motion - -	1322	12th May 1865	William Chubb. Solomon Fry.
Improved apparatus for facilitating communication by signals between different parts of a railway train.	1353	16th May 1865	Moss Defries.
Certain improvements in lamps for burning mineral oils. (*with alarm attached.*) (*Communicated by Monsieur Louis Theodore Letourneau.*)	1410	22nd May 1865	Peter Armand Le Comte de Fontaine Moreau.
Apparatus for increasing the safety of railway passengers and trains, signalling, lighting, and forming a communication between all parts of such trains, also for securing the carriage doors.	1492	31st May 1865	Richard Howarth.
Means or apparatus for signalling on railway trains and effecting communication between passengers and guards or others in charge of such trains.	1493	31st May 1865	Isaac Rogers.
Apparatus for indicating the pressure of steam or liquids in gauges, and for signalling.	1497	31st May 1865	Frederic Newton Gisborne.
Apparatus for signalling on railway trains and for effecting communication between parts of such trains.	1502	1st June 1865	Henry Martin.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Communicating signals in railway trains - -	1603	13th June 1865	Edward Samuel Horridge.
Improved means of conducting electric currents through railway trains, and of actuating signals or alarums therein.	1609	14th June 1865	Andrew Edmund Brae.
Apparatus for preventing collisions and other accidents on railways. (*Communicated by Eugène Vincenzi.*)	1621	15th June 1865	William Clark.
Method of and apparatus for effecting and recording telegraphic communications. (*Communicated by Sarah Martha Buckwell.*)	1628	16th June 1865	Michael Henry.
Means of communication between passengers and guards of railway trains.	1640	17th June 1865	Edwin Byerley.
Enabling the guards of railway trains to pass from one part of a railway train to another. (*see* "RAILWAYS.")	1643	19th June 1865	Henry Defries.
Apparatus applied to railway carriages to enable the passengers in a train to communicate with with the guard and engine driver thereof.	1659	20th June 1865	William Henson.
Apparatus for the use of passengers and others for signalling on railway trains.	1676	22nd June 1865	Michel Siégrist.
A new or improved apparatus for producing the magnesium light. (*for signals.*)	1696	24th June 1865	Charles Ross Bamber.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Means or apparatus for communicating signals on railway trains in motion.	1699	26th June 1865	John Nugent.
Improvements in apparatus for giving signals on board ships, and which are also applicable for other purposes.	1772	5th July 1865	Frederic Newton Gisborne.
Means of obtaining or producing oxygen applicable to various useful purposes. (*light for signals.*)	1780	6th July 1865	Hermann Beigel.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Railway signals - - - - - -	1856	14th July 1865	Augustus De Metz. Thomas Wickens Fry.
Signal and alarm apparatus for railways and railway trains.	1880	19th July 1865	Joseph Grindley Rowe.
An improved apparatus for producing sound for signals, calls and alarms, adapted to use on vessels, railway trains, buoys, reefs, lighthouses, and in other places of danger. (*Communicated by The Incorporated Marine Signal Company.*)	1898	20th July 1865	John Harkness Wray.
Construction of railway carriages - - - (*with communication along the train.*)	1924	25th July 1865	John Rigg.
Apparatus for preventing accidents on railways -	1945	26th July 1865	Jean Jacques Samuel Wenk. Alexandre Alphonse Mathieu.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*producing steam for fog signals.*)	1952	27th July 1865	Henry Sherwood.
Improved means of communication by signals between passengers, guards and drivers of railway trains.	1955	28th July 1865	Isaac Gregory.
Improved apparatus for communication between passengers and guards in railway trains.	1997	2nd Aug. 1865	John Groves Teal.
Apparatus and means for giving alarm in cases of fire - - - - - - -	1998	2nd Aug. 1865	John Crean. Charles Joseph Barr.
Means of communication between the passengers and guard and driver of a railway train.	1999	2nd Aug. 1865	Frederick Charles Dear.
An improved method of and apparatus for signalling and giving alarm on railways - -	2000	2nd Aug. 1865	Joseph Pickin. Richard Bailey.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes -	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
Signals for railways - - - - -	2009	3rd Aug. 1865	Edward Samuel Horridge.
Means of fastening or securing the tongues or reeds of fog horns.	2011	3rd Aug. 1865	William Henry Brookes.
Railway electrical signal apparatus - - - -	2016	3rd Aug. 1865	William Henry Preece.
Apparatus for communicating and signalling between passengers, guards and drivers of railway trains - - - - - - -	2052	8th Aug. 1865	Horatio Fletcher. George Gore.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Apparatus for giving immediate warning of undue heat, whether occasioned by fire, spontaneous combustion or any other causes, of leakage in ships, and of the sudden irruption of water, and of the accumulation of choke damp in mines.	2064	9th Aug. 1865	Charles West.
Improvements in and applicable to railway carriages to enable passengers to pass from one compartment to another, and to give signals on trains in motion.	2086	11th Aug. 1865	Thomas English Stephens.
Self-acting apparatus for extinguishing fire and sounding fire alarms - - - - -	2109	15th Aug. 1865	William Oldfield Wilson. Joseph Wilson.
Constructing constant galvanic batteries for giving a signal or alarm in case of fire, and any other telegraphic purposes - - - - -	2144	19th Aug. 1865	John Samuel Watson. Albert Horwood. Charles Brumfit.
Improvements in electric telegraph cables, and in transmitting signals therethrough.	2213	28th Aug. 1865	William Peter Piggott.
Certain improvements in the method of lighting gas and in apparatus connected therewith -	2308	9th Sept. 1865	Alexander Mackie. James Paterson.
Apparatus for signalling and indicating on railways	2309	9th Sept. 1865	John Anderson.
Means of communicating between the occupants of vehicles and the drivers or other attendants thereof.	2400	20th Sept. 1865	Ernest Petito.
An improved indicator for electric bells, and a new battery manipulator combined, for ringing electric bells and other signals.	2421	22nd Sept. 1865	Walker Moseley.
An improved apparatus or mechanism for locking and unlocking railway carriage doors, and for making signals with reference thereto.	2442	23rd Sept. 1865	John Hawkins Simpson.
Certain improvements in signalling on railways -	2474	27th Sept. 1865	Alfred Moore.
Railway signals - - - - -	2526	2nd Oct. 1865	Henry Gilbert James.
Apparatus for signalling by means of combined whistles.	2575	6th Oct. 1865	William Arena Martin.
Certain improvements in telegraphic communication for the purpose of indicating danger.	2584	7th Oct. 1865	Charles Hanson Mellor.
Signals for railway trains - - - - -	2586	7th Oct. 1865	John Hancock.
Apparatus for working railway switches, points and signals.	2669	16th Oct. 1865	Henry Skinner.
A new self-adjusting apparatus for railway signals, applicable also to other purposes.	2715	20th Oct. 1865	George Mussell.
Apparatus to facilitate signals being made by passengers in railway trains.	2755	25th Oct. 1865	Alexander Bewicke Blackburn.
Machinery for transmitting and receiving signals - (*Communicated by Count Ambjorn Pietro Sparre.*)	2841	3rd Nov. 1865	Alexander Horace Brandon.
Apparatus for effecting communications between the passengers, guard and engine driver in railway trains, and for giving notice to engine drivers in cases of accidents. (*Communicated by Samuel Cornwallis Amesbury.*)	2845	4th Nov. 1865	Henry Radcliffe.
Steering indicators and tell-tales - - - (*giving signals or directions.*)	2864	7th Nov. 1865	Charles Jullien Viehoff. James Adolphe Matthiesen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIGNALS, &c.—*continued.*			
Railway signals	2907	11th Nov. 1865	Samuel Hand. James Slater.
Safety apparatus for the prevention of accidents upon railways, by working signals or alarms in order to attract the attention of the guard or driver of the train. (*Communicated by Pierre François Roche.*)	2930	14th Nov. 1865	William Edward Newton.
Improved apparatus for effecting a communication between the passengers of a railway train and the guard or driver or both.	3003	22nd Nov. 1865	Samuel Alexander Bell.
Apparatus for signalling on railways	3032	25th Nov. 1865	Charles Frederick Whitworth.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops.	3068	29th Nov. 1865	Richard Howarth.
An improved apparatus for signalling between passengers, guards and engine drivers of railway trains, which said apparatus is applicable also for other purposes	3176	9th Dec. 1865	Robert Pickup. John Heald.
Apparatus for the use of passengers and others in signalling on railway trains.	3291	20th Dec. 1865	Michel Siégrist.
Steering indicators and tell-tales	3341	26th Dec. 1865	Charles Jullien Viehoff. James Adolphe Matthiessen.
Apparatus by which motion can be communicated or transmitted from one place to another, and between different parts of a ship or other structure, to exhibit orders and messages, and to give signals.	3381	30th Dec. 1865	John Sacheverell Gisborne.
SIZING, WARPING, BEAMING AND PREPARING YARNS FOR WEAVING.			
Improved mechanism for giving intermittent or continuous revolving motion of different velocities, without the use of change wheels (*taking up beams of sizing-machines.*)	272	31st Jan. 1865	Thomas Hall. Samuel Bonser.
Certain improvements in mechanism or apparatus for lubricating the cylinders of "slashing" and "tapeing" machines, such machinery being employed in the sizing of cotton and other yarns.	466	18th Feb. 1865	Thomas Ogden.
An improved method of treating yarns or threads previously to the processes of dyeing or dressing.	490	22nd Feb. 1865	James Mallison.
Certain improvements in machinery or apparatus for drying "warps" of cotton and other fibrous substances (*after sizing.*)	899	29th March 1865	Richard Holroyd. Joseph Holroyd Bolton.
Dyeing and sizing cotton, silk, woollen and other yarns	1413	23rd May 1865	Isaac Holt. William Holt. James Holt. Joseph Maude.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SIZING, &c.—*continued.*			
Sizing machines for sizing yarns, beams or warps to be woven - - - - - -	1729	29th June 1865	David Mercer. Thomas Mercer. Jonathan Mercer. Joseph Mercer.
An improved sizing material to be employed for sizing or dressing yarns preparatory to weaving. (*Communicated by John Ulric Billwiller.*)	1906	21st July 1865	Edward Schaub.
Machinery or apparatus for sizing, drying and beaming yarns of cotton or other fibrous substances - - - - - - -	2022	4th Aug. 1865	John Gaukroger. John Dodgeon.
Treating and printing threads employed in weaving (*Communicated by Stanislas Vigoureux.*)	2083	11th Aug. 1865	Richard Archibald Brooman.
Improvements in the means of fixing or attaching the bobbins of winding and other machines on to their spindles, which improvements are also applicable to other similar or analogous purposes, and to the detaching of railway carriages from trains whilst in motion. (*useful in warp machines.*)	2250	31st Aug. 1865	John Ward.
Manufacture of artificial gum, size or stiffening matter.	2810	1st Nov. 1865	John Sellars.
Machinery or apparatus employed for sizing yarns	2883	8th Nov. 1865	James Eastwood.
Certain improvements in sizing and dressing yarns	3010	23rd Nov. 1865	Nathaniel Greenhalgh. James Mallison.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*dressing.*) (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
A new or improved method of preparing esparto, alpha or mogador grasses or other similar vegetable substances, for spinning, weaving, and for substitution for hair and for other fibres now in use - - - - - - - (*see* "SPINNING.")	3156	8th Dec. 1865	Oliver Maggs. George Hedgecombe Smith.
A new method of and apparatus for regulating the tension of threads in weaving and other operations. (*warping.*) (*Communicated by Stanislas Vigoureux.*)	3236	14th Dec. 1865	Richard Archibald Brooman.
SMOKE PREVENTION; BURNING AND CONDENSING SMOKE; SAVING FUEL.			
Improvements in furnaces, ash pits and flues, for the consumption of smoke and noxious products of combustion, and in the apparatus or means connected therewith.	51	6th Jan. 1865	James Robertson.
Improvements in furnace flues for the consumption of smoke.	94	11th Jan. 1865	Abraham Cooper.
Furnaces - - - - - - -	110	13th Jan. 1865	William Smith Longridge. James Mash.
Boilers for generating steam - - - (*saving fuel.*)	113	13th Jan. 1865	Richard Lewis.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION, &c.—*continued.*			
Improvements in puddling, heating and other reverberatory furnaces used in the manufacture of iron and steel and for other purposes, which improvements may also be applied to steam-boiler furnaces.	173	20th Jan. 1865	John Hewes.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Smoke consuming apparatus - - -	584	2nd March 1865	Samuel Hopkinson. Edwin Hopkinson.
An improved process of and apparatus for making caustic liquor or caustic lees.	629	6th March 1865	Thomas Nicholson.
An improvement in the construction of hot air stoves for blast furnaces.	666	9th March 1865	Joseph Cliff.
Steam-boilers and the furnaces thereof - -	685	11th March 1865	Edward Brown Wilson. James Howden.
Manufacture of iron and steel - - -	689	11th March 1865	James Henderson.
Stoves or fire-places, ash pans and fenders - -	826	23rd March 1865	James Clifford Morgan.
Means and apparatus for utilizing the heat of steam (*saving fuel.*)	854	25th March 1865	David Estler Blacke.
Improvements in the construction of furnaces for the consumption of smoke - - - -	862	27th March 1865	Charles Matthews. John Fereday.
Steam-boilers - - - - - -	906	31st March 1865	John Swarbrick. David Swarbrick. Benjamin Swarbrick. Ormerod Swarbrick.
Means or method of curing or preventing smoky chimnies.	911	31st March 1865	Benjamin Greenwood.
Improvements in the mode of and apparatus for purifying smoke, which improvements are also applicable to other purposes in which gas or vapour is to be separated from substances combined therewith or held in suspension therein. (*Communicated by Joseph Bourgeois and Jules Mathieu.*)	1001	7th April 1865	Michael Henry.
Arrangement of furnaces used for puddling and reheating iron, the generation of steam and other similar purposes.	1064	13th April 1865	William Beardmore.
Construction of ships or vessels or cars to float on water.	1083	18th April 1865	William Bedder.
Smoke consuming furnaces - - - (*Communicated by Etienne Sauret and Eugene de Fleury.*)	1152	25th April 1865	Richard Archibald Brooman.
Furnaces - - - - - - -	1186	27th April 1865	Dundas Simpson.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*economising fuel.*) (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Mode of and apparatus for obtaining and applying motive-power - - - - - - (*economising fuel.*)	1303	10th May 1865	Stanilas Pokutynski. Michel Mycielski.
Construction of furnaces or fire-places - - (*Communicated by Louis Phillip Cohen.*)	1451	26th May 1865	Mylius Cohen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION, &c.—*continued.*			
Construction of furnaces	1469	29th May 1865	Peter Young.
Means and apparatus employed for preventing downward draft in chimnies, facilitating the escape of smoke therefrom, and for ventilating apartments or buildings	1471	29th May 1865	Edward Myers. James Stodart.
Foundry cupolas	1498	31st May 1865	Thomas Summerson.
Steam-boilers (*Communicated by Abram Samuel Mitchell.*)	1521	2nd June 1865	Henry Edward Newton.
Improved sanitary apparatus or arrangements for preventing noxious exhalations such as arise when coating or treating iron or other articles	1690	24th June 1865	Matthew Andrew Muir. James M'Ilwham.
Means and apparatus for consuming smoke (*Communicated by François Augustus Fouché and Claude Moret.*)	1697	24th June 1865	William Clark.
Improvements in steam-boilers, furnaces and engines, and in parts connected therewith.	1745	30th June 1865	Edwin Elliott.
Improvements in the production of gases from aqueous vapour, and in the application thereof to heating purposes.	1841	12th July 1865	Harrison Blair.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*preventing formation of smoke.*)	1952	27th July 1865	Henry Sherwood.
Means or apparatus for promoting the combustion of fuel in furnaces of steam-boilers, dyers' or brewers' pans and other furnaces, whereby smoke is prevented and fuel economized	1972	31st July 1865	Benjamin Robinson. Joseph Varley.
Locomotive and other tubular boilers	1990	1st Aug. 1865	Louis Emile Constant Martin.
Machinery to be used in the manufacture of plate or sheet iron and steel. (*Communicated by Martin Dieudonné Henvaux.*)	2012	3rd Aug. 1865	Ephraim Sabel.
Improvements in and connected with the manufacture of copper.	2100	14th Aug. 1865	James Thomas Lockey.
Furnaces to be used in the manufacture of glass and iron and steel, and for other like purposes. (*Communicated by Henning Boetius.*)	2105	15th Aug. 1865	John Frederick Boetius.
Steam boilers or generators (*economising fuel.*) (*Communicated by Henry Clark Sargeant.*)	2189	25th Aug. 1865	William Edward Newton.
Improvements in condensing and utilizing sulphurous smokes and vapours, and in apparatus to be used for that purpose.	2216	29th Aug. 1865	Adolf Gurlt.
Improved steam heating apparatus (*economising fuel.*) (*Communicated by Henry Bulkley.*)	2255	1st Sept. 1865	Alfred Vincent Newton.
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M'Callum.
Improvements in boilers and furnaces, and in cleansing the flues thereof (*removing soot.*)	2291	6th Sept. 1865	Edward Green. Edward Green the younger.
Means of and apparatus for consuming smoke in furnaces.	2382	19th Sept. 1865	Charles Worssam.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION, &c.—*continued.*			
Improvements in and applicable to furnaces for the consumption of smoke.	2405	21st Sept. 1865	William Watkin.
Apparatus for ventilating and for preventing down draught in flues.	2467	26th Sept. 1865	John Hilliar.
Collecting or drawing off the gases from blast furnaces	2507	29th Sept. 1865	John Addenbrooke. George Addenbrooke. Philip Anthony Millward.
Improvements in apparatus for the regulation of the up and down currents of air, and for the prevention and cure of smoky chimneys.	2602	10th Oct. 1865	William Cooke.
An improved ventilating apparatus for use in steam boats, vessels and other places requiring to be ventilated.	2609	10th Oct. 1865	John Garrison Woodward.
Manufacture of gas (*saving fuel.*)	2620	11th Oct. 1865	James Crutchett.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François Georges Sicard.
Furnaces	2682	17th Oct. 1865	William Beardmore.
Steam-boilers	2738	23rd Oct. 1865	Alexander Chaplin.
Construction of furnaces and boilers for the consumption of smoke	2746	24th Oct. 1865	Charles Matthews. Henry Booth Southwick. John Fereday.
Furnaces	2803	31st Oct. 1865	Robert Cassels. Thomas Morton.
An improved apparatus for increasing draught in and preventing or curing smoky chimneys, and economising heat. (*Communicated by François Perrachon.*)	2822	2nd Nov. 1865	William Edward Gedge.
Apparatus for separating dust from the gases evolved from blast furnaces.	2885	8th Nov. 1865	Charles Cochrane.
Furnaces	2963	17th Nov. 1865	Thomas Maxwell Tennant.
An improved chimney cowl (*Communicated by Victor Etienne Antoine Berne and Irma Victorine Carabin.*)	3052	28th Nov. 1865	Henry Edward Newton.
Means or apparatus for economising and inducing more perfect combustion of fuel in furnaces.	3062	29th Nov. 1865	Thomas Lancaster.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes (*expelling smoke.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
Construction of fire-places and furnaces (*diminishing consumption of fuel.*)	3247	15th Dec. 1865	George Warriner.
Certain improvements in the means of collecting waste gases arising from blast furnaces	3261	18th Dec. 1865	Samuel Whitehouse the elder. Samuel Whitehouse the younger. Jeremiah Whitehouse. William Whitehouse.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SMOKE PREVENTION, &c.—*continued.*			
Improvements in smelting copper and in obtaining products from the gases and vapours given off during the said smelting.	3267	18th Dec. 1865	Henry Causer Ensell.
SOAP.			
Improvements in the manufacture of oxygen gas and in treating and economizing the residual products of the said manufacture - - (*residuum for soap makers.*)	5	2nd Jan. 1865	John Frederick Parker. Joseph Tanner.
An improved method of treating fatty matters -	892	29th March 1865	Samuel Childs, jun^{r}.
Improvements in treating fibrous materials and textile fabrics and in producing soap. (*Communicated by Leon Pasquier and Alphonsine Julie Dumont.*)	1443	25th May 1865	Michael Henry.
A new method of manufacturing oil from fatty matters or the residuum arising from the distillation of fatty matters, the manufacture of stearic acid, soap and purification of oils. (*Communicated by Pierre Réné Beaumont.*)	1456	27th May 1865	Richard Archibald Brooman.
Improvements in the manufacture of soap and in apparatus employed therein. (*Communicated by Jacob Beers Bennett and James Sidney Gibbs.*)	1540	5th June 1865.	Richard Archibald Brooman.
Manufacturing grease from soapsuds - - (*see* "OILS FROM SEEDS.")	1797	7th July 1865	Isaac Peel. William Hargreaves.
Certain improvements in soap - - -	2140	18th Aug. 1865	Alexander Watt.
Manufacture of soap - - - - -	3007	22nd Nov. 1865	James John Field.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery and in the manufacture of soap.	3107	4th Dec. 1865	Leopold Joseph Bouchart.
SOWING SEEDS AND DISTRIBUTING MANURE.			
Improved apparatus for distributing liquid manure -	100	12th Jan. 1865	William Russ.
An improvement in lever horse hoes and lever corn drills, for the hoeing and sowing of wheat and turnips and all other seed and root crops.	279	1st Feb. 1865	John Sainty.
An improved corn, seed and manure drill, parts of which invention are also applicable to other similar agricultural implements.	1345	15th May 1865	Henry Besley.
Improved apparatus for distributing liquid manure -	1369	18th May 1865	Christopher Smith Billups.
Horse hoes and drills - - - - -	1569	9th June 1865	James Holmes. George Thomas Holmes. Frederick Robert Holmes.
Drills for sowing seeds and depositing manure -	1867	18th July 1865	James Armitage.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SOWING, &c.—*continued.*			
A new or improved detergent solution to be used in the washing or cleansing of wool and woollen fabrics. (*Communicated by Charles Dyonise Reinfeld.*)	1932	25th July 1865	John Henry Johnson.
An improved apparatus for scattering lime, guano or other artificial manures, either in a dry or liquid state or for scattering disinfectants.	2846	4th Nov. 1865	Alexander Jemmett.
SPINDLES; SPINDLES AND FLYERS.			
Flyers for preparing cotton and other fibrous materials for spinning - - - - -	69	9th Jan. 1865	Richard Ashton Lightoller. George Henry Lightoller.
Throstle spinning frames - - - - - (*form of flyers.*) (*Communicated by Charles Leyherr.*)	236	27th Jan. 1865	Charles Denton Abel.
Improvements in steam hammers applicable to the manufacture of files, to welding flyers of cotton machinery and to other purposes.	641	7th March 1865	James Dodge.
Improved means or apparatus for lubricating vertical or diagonal spindles and shafts.	782	21st March 1865	James Waterhouse Midgley.
Improvements in locks and in fixing knobs and spindles to doors and latches.	944	4th April 1865	Richard Nabbs.
Apparatus for lubricating spindles, shafts or other frictional surfaces. (*Communicated by William Francis Rippon.*)	1060	13th April 1865	James Rippon.
Apparatus for shaping corks - - - -	1065	15th April 1865	John McDowall.
Certain improvements in machinery or apparatus for rolling or shaping metallic articles of irregular form, such as "file-blanks" and similar articles.	1190	28th April 1865	Edward McNally.
Improved apparatus for cutting, turning and smoothing metal pipes and the surfaces of bolts, rods or spindles - - - - -	1311	11th May 1865	George Mountford. Edward Worroll.
Machinery or apparatus for tapering, pointing or reducing wires or rods for spindles, hatchel teeth, pins for dresses and similar articles.	1363	16th May 1865	Chauncey Orrin Crosby.
Improvements in locks and latches and in staples and spindles for the same.	1782	6th July 1865	George Carter.
Improvements in the lubricating of spindles, the necks or bolsters in which the said spindles revolve having a traversing motion in the said neck or bolster.	2059	9th Aug. 1865	Jacob Henry Radcliffe.
Flyers used in doubling machines - - -	2611	10th Oct. 1865	Mark Walker.
Certain improvements in machinery or apparatus for twisting or doubling cotton or other yarns -	2631	12th Oct. 1865	James Broughton Edge. Enoch Hird.
Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances.	2651	14th Oct. 1865	Godfrey Anthony Ermen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINDLES, &c.—*continued.*			
Improvements in machinery or apparatus known as "roving," "intermediate," "slubbing" and "throstle" frames and "doublers" and also in winding machines used for preparing, spinning and winding cotton, wool, flax, silk and other fibrous substances.	2713	20th Oct. 1865	William Sumner.
Means or apparatus for preparing, spinning, twisting, doubling or winding cotton, wool, flax or other fibrous material.	2866	7th Nov. 1865	Martyn John Roberts.
Improvements in the construction of door locks, latches and such like fastenings and in knob and handle spindles and furniture used therewith.	2889	9th Nov. 1865	Benjamin Pitt.
Machinery for preparing, spinning and twisting flax, cotton, wool and other fibrous substances - (*spindles and flyers.*)	3212	12th Dec. 1865	John Campbell. Samuel M'Kinstry. Thomas Wilson.
Construction of parts of machines used in spinning and doubling - - - - - - (*flyers.*)	3234	14th Dec. 1865	John Elce. Robert Cotton.
Improvements in the manufacture of axles for carriages and spindles for various purposes and in machinery to be employed in the said manufacture, part of which improvements in machinery may also be applied to other purposes - -	3336	26th Dec. 1865	Elias Lones. Joseph Constant Lones. John Lones. John Brettell. Thomas Brettell. Charles Vernon.
Throstle machines and flys - - - - -	3377	30th Dec. 1865	Thomas Parkinson.
SPINNING AND PREPARING FOR SPINNING.			
I.—Opening, Ginning, Breaking and Cleaning Fibrous Materials.			
Machinery for ginning cotton - - - -	44	6th Jan. 1865	Benjamin Dobson. William Slater. Robert Halliwell.
Machinery for opening and carding cotton and other fibrous materials.	90	11th Jan. 1865	Robert Tempest.
Machinery or apparatus for ginning and cleaning cotton and other fibrous materials - - (*Partly communicated by Albert Westfeld.*)	191	23rd Jan. 1865	Christopher Brakell. William Hoehl. William Günther.
Machinery for thrashing, beating and dressing flax	231	26th Jan. 1865	William Creasy.
Cotton gins - - - - - -	248	28th Jan. 1865	Benjamin Dobson. William Slater.
Machinery or apparatus for washing wool and other fibrous materials.	251	28th Jan. 1865	John Petrie, jun^{r}.
Apparatus for breaking and scutching flax or similar fibrous materials.	277	1st Feb. 1865	John Gray.
Machinery for washing and drying wool and other fibrous materials - - - - - -	281	1st Feb. 1865	John M'Naught. William M'Naught, jun^{r}.
Machinery for breaking the stems of and preparing flax, hemp and other fibrous substances. (*Communicated by Auguste Henri Leveau.*)	336	7th Feb. 1865	Henry Bernoulli Barlow.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
An improved composition as a substitute for leather or other similar materials - - - - (*for cotton gin rollers.*)	465	18th Feb. 1865	Christopher Brakell. William Hoehl. William Günther.
Cotton gins - - - - - (*Communicated by François Durand.*)	531	24th Feb. 1865	Edmond Paul Henri Gondouin.
Machinery for scutching and refining flax and other vegetable substances.	627	6th March 1865	Andrew Potts.
Cotton gins - - - - - -	673	10th March 1865	Evan Leigh.
Machinery for preparing flax, hemp and other fibrous materials requiring like treatment - -	680	10th March 1865	Joseph Samuel. Samuel Millbourn.
Apparatus for washing wool, hair and other fibre -	808	22nd March 1865	George Edmund Donisthorpe.
Cotton gins - - - - -	851	25th March 1865	William Richardson.
Separating fibre from vegetable materials containing the same. (*Communicated by Antonio Meucci.*)	958	4th April 1865	George Tomlinson Bousfield.
Preparing, spinning and doubling cotton, flax, wool, silk and other fibrous material - -	1116	21st April 1865	James Champion. John Brinsley Sheridan.
Machinery for preparing and spinning cotton and other fibrous substances.	1125	22nd April 1865	Edward Lord.
Spools or bobbins to be used in certain frames for preparing fibrous materials for spinning.	1127	22nd April 1865	Joshua Henry Wilson.
Improvements applicable to rollers of machinery for preparing and spinning fibrous substances, which improvements are also applicable to other rollers which are pressed towards each other.	1160	25th April 1865	William Oxley.
A new or improved method of conditioning or preparing fibres, threads and fabrics, and apparatus to be employed therein. (*Communicated by Stanislas Vigoureux.*)	1169	26th April 1865	Richard Archibald Brooman.
Apparatus employed in preparing and spinning wool, silk, flax and other fibrous substances - -	1565	8th June 1865	Samuel Stell. Thomas Broughton. Francis Hall.
Spinning of cotton and other fibrous materials -	1574	9th June 1865	Julius De Hemptinne.
Cotton gins - - - - - (*Communicated by Frederick Tabor Ackland, Henry George Mitchell and Mustapha Mustapha.*)	1714	27th June 1865	John Henry Johnson.
Treating and preparing flax for scutching - -	1828	10th July 1865	George Firmin.
Means or apparatus for opening and straightening wool, cotton and other fibres.	1865	18th July 1865	Joshua Thornton.
Processes and machinery for producing fibres suitable for being spun, from rags or remnants of woven or other textile fabrics made of silk, wool, cotton or other fibrous materials.	1881	19th July 1865	Henry Ernest Gilles.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes.	1952	27th July 1865	Henry Sherwood.
Process of and machinery for cleaning china grass and flax, and removing therefrom the resinous and woody matters that adhere to the useful fibres of the plant.	2078	10th Aug. 1865	Joseph Faren.
Machinery for preparing cotton, wool and other fibrous materials - - - - -	2089	12th Aug. 1865	Jonas Tatham. John Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Improved machinery for feeding fibrous substances to preparing, carding and other machinery for working wool and other filamentous substances. (*Communicated by Alexandre Deru.*)	2517	30th Sept. 1865	William Edward Newton.
Mode of treating the roots of the lucerne plant for the purpose of manufacturing paper, pasteboard, fabrics and ropes therefrom. (*extracting the fibres for spinning.*) (*Communicated by John Peter Caminade.*)	2523	2nd Oct. 1865	Charles Denton Abel.
Improvements in and applicable to machines for opening and cleaning cotton and other fibrous materials - - - - - -	2557	5th Oct. 1865	Edward Marsland. Peter Williams.
Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances.	2651	14th Oct. 1865	Godfrey Anthony Ermen.
Process of and machinery for preparing flax, hemp, jute, china grass and other analagous vegetable fibres for spinning.	2725	21st Oct. 1865	James Hill Dickson.
Cotton gins - - - - - -	2984	20th Nov. 1865	William James Burgess.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap. (*wool, &c.*)	3107	4th Dec. 1865	Leopold Joseph Bouchart.
An improved method in the production of fibre from various fibrous plants and animal products.	3112	4th Dec. 1865	James Steart.
Machinery for opening and cleaning cotton and other fibrous substances.	3120	5th Dec. 1865	Samuel Wright Wilkinson.
Machinery or apparatus for cleaning and ginning cotton and other fibrous substances.	3137	6th Dec. 1865	George Macdonald.
A new or improved method of preparing esparto, alpha or mogador grasses or other similar vegetable substances, for spinning, weaving, and for substitution for hair and for other fibres now in use - - - - - - -	3156	8th Dec. 1865	Oliver Maggs. George Hedgecombe Smith.
Machinery for opening and cleaning cotton and other fibrous substances - - - - - -	3233	14th Dec. 1865	Thomas Ridley Hetherington. Samuel Thornton.
Improvements in the manufacture of yarns, string and paper, and in the preparation of dyes, and in dyeing fabrics, by the application of vegetable substances not hitherto used for such purposes.	3318	22nd Dec. 1865	John Alexander Cooper.
II.—Carding, Combing and Heckling Fibrous Materials; Making Cards.			
Machinery for opening and carding cotton and other fibrous materials.	90	11th Jan. 1865	Robert Tempest.
Improved machinery or apparatus for shaping the elastic dents of expanding and contracting combs.	189	21st Jan. 1865	Matthew Robinson.
Improved mechanism for giving intermittent or continuous revolving motion of different velocities, without the use of change wheels - - (*taking up beams of carding-machines.*)	272	31st Jan. 1865	Thomas Hall, Samuel Bonser.
Carding-engines - - - - - -	593	2nd March 1865	John Macmillan Dunlop.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery or apparatus for combing wool and other fibrous substances - - - -	622	6th March 1865	Samuel Smith. William Smith.
Machinery or apparatus for hackling flax, hemp or other similar fibrous substances - - -	690	11th March 1865	Thomas Whitehead. Henry Walton Whitehead.
Worsted carding and preparing machinery - -	820	23rd March 1865	Henry Oakes.
Certain improvements in machinery or apparatus used in carding cotton or other fibrous substances - - - - - - -	887	29th March 1865	Evan Leigh. Frederick Allen Leigh.
Improvements in preparing wool and other fibrous substances, and in the apparatus employed therein - - - - - - -	948	4th April 1865	Alfred Illingworth. Henry Illingworth.
Machinery for carding wool or other fibrous substances - - - - - - -	983	6th April 1865	Joshua Ellis. Charles Walker. William Preston.
Certain improvements in machinery or apparatus to be employed in preparing cotton and other fibrous substances for spinning.	990	7th April 1865	James Thompson.
An improved metallic preparation or composition for cleaning, sharpening, burnishing and grinding articles of cutlery, edge tools or cutting instruments, and for grinding the cards or rollers of carding-engines and the surfaces of cylinders, and covering rollers for various kinds of woollen and cotton machinery.	1054	13th April 1865	George Mountford.
Machinery for combing, preparing and drawing wool or other fibrous material - - -	1084	18th April 1865	Thomas Whitehead. Nicholas Nussey.
Machinery for carding cotton and other fibrous substances and for doubling yarns - - -	1094	20th April 1865	James Hall. William Dunkerley. Samuel Schofield.
Improvements in door and other mats, part of which improvements is also applicable to brushes and brooms, and to producing card or tooth surfaces employed in operating on various fibrous substances.	1283	9th May 1865	Thomas Jefferson Mayall.
Machinery or apparatus for tapering, pointing or reducing wires or rods for spindles, hatchel teeth, pins for dresses, and similar articles.	1363	16th May 1865	Chauncey Orrin Crosby.
Screw gills or hackle frames - - - -	1419	24th May 1865	Thompson Beanland.
Machinery for separating or sorting fibres and filaments of different lengths, and forming them into a lap or fleece. (*Communicated by Charles Simon.*)	1430	25th May 1865	Richard Archibald Brooman.
Machinery for combing wool and other filamentous and textile materials. (*Communicated by Jules Harmel, Ernest Harmel and Léon Harmel.*)	1550	6th June 1865	Richard Archibald Brooman.
Machinery for combing and heckling fibrous materials.	1557	7th June 1865	William Tongue.
Improvements in rubbing or rolling woollen or cotton cardings, and in apparatus connected therewith.	1619	15th June 1865	Thomas Rothwell.
Machinery for combing wool and other fibrous materials - - - - - - -	1664	21st June 1865	John Busfield. Samuel Bairstow Walmsley.
Machinery for combing cotton, wool and other fibrous materials.	2164	23rd Aug. 1865	George Little.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery for combing wool and other fibrous materials	2222	29th Aug. 1865	Isaac Bailey. William Henry Bailey.
Machinery for combing wool and other fibrous material.	2299	7th Sept. 1865	Augustin Morel.
Cards used in carding-engines and other similar machinery	2432	23rd Sept. 1865	William Turner. Samuel Shore. William Halliwell.
Machinery or apparatus for preparing and spinning cotton and other fibrous materials.	2476	27th Sept. 1865	William Tatham.
Improved machinery for feeding fibrous substances to preparing, carding and other machinery for working wool and other filamentous substances. (*Communicated by Alexandre Deru.*)	2517	30th Sept. 1865	William Edward Newton.
Apparatus for grinding cards of carding-engines	2518	30th Sept. 1865	Samuel Faulkner.
Machinery for carding wood or other fibrous substances	2533	3rd Oct. 1865	Charles Walker. William Preston.
Certain improvements in machinery for hackling flax or other fibrous substances.	2781	28th Oct. 1865	Stephen Cotton.
Machinery for combing wool and other fibres	2797	31st Oct. 1865	George Edmund Donisthorpe.
Apparatus for grinding and pointing the cards on carding-engines.	2876	8th Nov. 1865	Robert Swires.
Screw gill boxes	3038	27th Nov. 1865	William Hodgson.
Means or apparatus for preparing and combing wool and other fibrous substances.	3123	5th Dec. 1865	Isaac Holden, M.P.
Apparatus to be employed in the feeding of scribbling and carding engines	3161	8th Dec. 1865	George Wailes. Benjamin Cooper.
Combing silk, flax, wool and other fibrous substances.	3182	9th Dec. 1865	James Warburton.
Holders for hackling machines for jute, hemp, flax and other fibrous substances.	3250	15th Dec. 1865	Charles Blyth.
III.—Roving, Slubbing, Spinning, Twisting, Doubling and Throwing Fibrous Materials.			
Certain improvements in mules for spinning	21	4th Jan. 1865	John Knowles. James Banks.
Jack and slubbing frames	63	9th Jan. 1865	Ashworth Barlow.
Flyers for preparing cotton and other fibrous materials for spinning	69	9th Jan. 1865	Richard Ashton Lightoller. George Henry Lightoller.
Machinery for preparing, spinning, doubling and winding wool, mohair, alpaca, silk, flax, cotton, or other fibrous substances	130	16th Jan. 1865	Jabez Bunting Farrar. John Hirst.
Mules for spinning and doubling	133	16th Jan. 1865	William Rowbottom.
Machinery or apparatus for preparing cotton and other fibrous materials to be spun.	158	19th Jan. 1865	Thomas Mayor.
Improvements applicable to throstle worsted spinning and doubling frames.	162	19th Jan. 1865	Edward Williams.
The manufacture of a new thread for weaving and other uses. (*Communicated by Veras Sabras and Gaston Jessé.*)	212	25th Jan. 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.— *continued.*			
Throstle spinning frames - - - - (*Communicated by Charles Leyherr.*)	236	27th Jan. 1865	Charles Denton Abel.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*driving spinning frames.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Improvements applicable to spinning mules and throstles - - - - - -	323	6th Feb. 1865	Edward Williams. Thomas Williams.
Machinery for preparing cotton and other fibrous substances.	376	10th Feb. 1865	Edward Lord.
Mules for spinning and doubling - - -	577	1st March 1865	John Dodd.
Improvements in steam hammers applicable to the manufacture of files, to welding flyers of cotton machinery and to other purposes.	641	7th March 1865	James Dodge.
Certain improvements in lap machines employed in preparing cotton and other fibrous substances.	756	18th March 1865	Thomas Ogden.
Manufacture of yarn so as to render same applicable as a substitute for woollen yarn, for manufacturing into shawls and other textile fabrics.	774	20th March 1865	Isidor Philippstal.
Improved means or apparatus for lubricating vertical or diagonal spindles and shafts.	782	21st March 1865	James Waterhouse Midgley.
Mules for spinning and doubling - - -	850	25th March 1865	John Dodd.
Certain improvements in mules for spinning cotton and other fibrous substances - - -	919	1st April 1865	William Mayall. John Knott. William Dennis.
Improvements in preparing wool and other fibrous substances, and in the apparatus employed therein - - - - - - -	948	4th April 1865	Alfred Illingworth. Henry Illingworth.
Machinery for preparing cotton and other fibrous substances.	998	7th April 1865	Moses Savery Maynard.
Apparatus for lubricating spindles, shafts or other frictional surfaces. (*Communicated by William Francis Rippon.*)	1060	13th April 1865	James Rippon.
Machinery for combing, preparing and drawing wool or other fibrous material - - -	1084	18th April 1865	Thomas Whitehead. Nicholas Nussey.
Machinery for carding cotton and other fibrous substances and for doubling yarns - -	1094	20th April 1865	James Hall. William Dunkerley. Samuel Schofield.
Preparing, spinning, and doubling cotton, flax, wool, silk and other fibrous material - -	1116	21st April 1865	James Champion. John Brinsley Sheridan.
Spools or bobbins to be used in certain frames for preparing fibrous materials for spinning.	1127	22nd April 1865	Joshua Henry Wilson.
Certain improvements in apparatus for spinning silk and other fibrous substances. (*Communicated by Monsieur Justin Louis Auguste Aubenas.*)	1202	29th April 1865	Peter Armand Le Comte de Fontaine Moreau.
Improvements in the preparation of jute, hemp, flax, and other fibrous materials, and in the machinery or apparatus employed therein.	1262	5th May 1865	James M'Glashan.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery or apparatus for tapering pointing or reducing wires or rods for spindles, hatchel teeth, pins for dresses, and similar articles.	1368	16th May 1865	Chauncey Orrin Crosby.
Certain improvements in apparatus to be employed in spinning cotton and other fibrous materials.	1383	19th May 1865	Thomas Marsden.
Certain improvements in machinery for spinning and doubling cotton and other fibrous substances. (*Communicated by Joseph Slater.*)	1391	20th May 1865	Charles Bradley.
An improvement in the drawing and other rollers used in preparing and spinning cotton and other fibrous materials and textile manufactures. (*Communicated by Amos Ashum Taylor.*)	1439	25th May 1865	William Edward Newton.
Certain improvements applicable to spinning, weaving and knitting machines. (*Communicated by Charles Arthur Radiguet and Jean Adolphe Lecène.*)	1440	25th May 1865	William Edward Newton.
Spinning machinery - - - - (*Communicated by Julius Steiner.*)	1483	30th May 1865	Moritz Meisel.
Improved machinery for putting twist in all fibrous substances.	1526	3rd June 1865	William Holden.
Apparatus for doubling and twisting yarns and threads.	1530	5th June 1865	William Townend.
Machinery or apparatus for spinning, doubling or twisting cotton and other fibrous materials -	1551	6th June 1865	Alfred Pemberton. Alfred William Pemberton.
Improvements in silk winding machines, part of the said improvements being also applicable to cleaning and doubling machines.	1633	16th June 1865	William Trevor Wanklyn.
Machinery for twisting, doubling and laying all kinds of yarns.	1644	19th June 1865	Edward Whalley.
Improvements in and applicable to machinery for doubling and drawing cotton and other fibrous substances.	1739	30th June 1865	François Delamare-Debouteville.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes - (*rollers for spinning machinery.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Straight eye clearing guides or cleaners, for winding silk, cotton or other fibrous substances -	1872	19th July 1865	John Batkin Whitehall. Thomas Pillings.
Covers for rollers used in spinning cotton - -	1901	21st July 1865	George Taylor. Joseph Crossley.
Means or apparatus for producing friction or adhesion between pulleys, rollers and the like, and cords, bands, belts or chains passed over or round them. (*for spinning frames.*)	1927	25th July 1865	Martyn John Roberts.
An improvement in "cap frames" - -	1966	29th July 1865	Reuben Worsnop.
Preparing machinery for flax, tow, jute and other fibrous materials - - - -	1977	31st July 1865	John Lawson. Edward Gerrard Fitton.
Machinery for the manufacture of linen or other yarns or threads.	1985	1st Aug. 1865	Thomas Bell Paton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Improvements in the lubricating of spindles, the necks or bolsters in which the said spindles revolve having a traversing motion in the said neck or bolster.	2059	9th Aug. 1865	Jacob Henry Radcliffe.
Machinery for preparing cotton, wool and other fibrous materials - - - - -	2089	12th Aug. 1865	Jonas Tatham. John Smith.
An improved method of twisting threads - - (*see* "WEAVING.") (*Communicated by Désiré Sival and Léon Sival.*)	2147	19th Aug. 1865	Richard Archibald Brooman.
Certain improvements in preparing and spinning cotton and other fibrous materials.	2285	6th Sept. 1865	James Pilkington.
Mules for spinning and doubling - - -	2342	13th Sept. 1865	John Dodd.
Spinning frames - - - - - (*Communicated by Paul Friedheim.*)	2343	13th Sept. 1865	Alfred Vincent Newton.
Bobbins or spools used in spinning and winding yarns and threads. (*Communicated by Charles Reynolds.*)	2368	16th Sept. 1865	Jehiel Keeler Hoyt.
Bobbin holders - - - - - - (*for spinning machines.*)	2406	21st Sept. 1865	John Goulding.
Machinery or apparatus for preparing and spinning cotton and other fibrous materials.	2476	27th Sept. 1865	William Tatham.
An improvement in machinery for spinning, twisting, doubling and winding yarns or threads. (*Communicated by Arsene Leyssen and Gaspard Andrieux.*)	2538	3rd Oct. 1865	William Edward Newton.
Flyers used in doubling machines - - -	2611	10th Oct. 1865	Mark Walker.
Certain improvements in machinery or apparatus for twisting or doubling cotton or other yarns -	2631	12th Oct. 1865	James Broughton Edge. Enoch Hird.
Improvements in machinery or apparatus known as "roving," "intermediate," "slubbing" and "throstle" frames and "doublers," and also in winding machines used for preparing, spinning and winding cotton, wool, flax, silk and other fibrous substances.	2713	20th Oct. 1865	William Sumner.
Manufacture of covers applicable to drawing or printing rollers and as endless blankets - -	2716	20th Oct. 1865	Manuel Leopold Jonas Lavater. John Kershaw.
Mules for spinning and doubling - - - (*Communicated by Ernest Stamm.*)	2763	26th Oct. 1865	Henry Bernoulli Barlow.
Machinery for the preparation and spinning of flax and other fibrous substances.	2778	28th Oct. 1865	James Combe.
Means or apparatus for preparing, spinning, twisting, doubling or winding cotton, wool, flax or other fibrous material.	2866	7th Nov. 1865	Martyn John Roberts.
Certain improvements in mechanism or apparatus for spinning and doubling cotton or other fibrous substances - - - - -	2960	20th Nov. 1865	James Broughton Edge. Enoch Hird.
Application of pressure to the rollers of spinning, preparing and other machinery.	2995	21st Nov. 1865	Thomas Richards Harding.
"Top rollers" employed in the manufacture of fibrous substances.	3073	30th Nov. 1865	John Kerfoot.
Improvements in winding machinery, which improvements are partly applicable to machinery for spinning and doubling.	3116	5th Dec. 1865	John Jackson Ashworth.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPINNING, &c.—*continued.*			
Machinery for preparing, spinning and twisting flax, cotton, wool and other fibrous substances -	3212	12th Dec. 1865	John Campbell. Samuel McKinstry. Thomas Wilson.
Construction of parts of machines used in spinning and doubling - - - - - -	3234	14th Dec. 1865	John Elce. Robert Cotton.
Improvements in caps employed in spinning, and in the manufacture thereof.	3323	23rd Dec. 1865	Edward Clifton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*bands for spinning wheels.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Throstle machines and flys - - - -	3377	30th Dec. 1865	Thomas Parkinson.
SPRINGS.			
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edwards Wilson.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Permanent way and rolling stock of railways -	520	24th Feb. 1865	John Kennedy Donald.
Machinery or apparatus for rolling, shaping or forging metals. (*carriage springs.*)	701	13th March 1865	Robert Marsden.
Wheels and the manner of applying the same to railway carriages for passengers' and goods' traffic, as also the leading wheels for locomotives.	1114	21st April 1865	William Day.
Machinery for sewing and embroidering - -	1167	26th April 1865	George Mumby.
A new or improved spring apparatus to be applied to the bearings of the axles of pulleys or drums used in collieries - - - - -	1343	15th May 1865	George Elliot. Samuel Bailey Coxon.
An improved method of testing railway and other springs - - - - - - -	1374	18th May 1865	Joseph Mitchell. George Tilfourd.
Locomotive engines and railway carriages - -	1646	19th June 1865	George Smith the younger.
Improvements in locomotive engines and in springs of railway carriages.	1769	4th July 1865	James Edwards Wilson.
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
Construction of springs for railroad and other carriages.	1860	15th July 1865	John Crawford Walker.
Protecting crinoline steel, stay busks, springs for leggings or gaiters, and other similar fastenings.	1883	19th July 1865	William Edwards.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes - -	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
Manufacture of cast steel and cast iron, and the manufacture of a mixed metal. (*for springs.*) (*Communicated by Emile Martin and Pierre Emile Martin.*)	2137	18th Aug. 1865	Richard Archibald Brooman.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SPRINGS—*continued.*			
Bearing and draw springs, and springs to resist concussion.	2462	26th Sept. 1865	William Henry Brown.
File-cutting machines - - - - - (*india-rubber springs.*)	2548	4th Oct. 1865	John Dodge.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Centrifugal governors - - - - - (*applying springs.*) (*Communicated by Thomas Richard Pickering.*)	2639	12th Oct. 1865	William Edward Newton.
Bedsteads, seats, couches and other articles for sitting and reclining on. (*springs.*)	2656	14th Oct. 1865	James Lamb Hancock.
Improvements in common road carriages and in breaks for the same.	2687	18th Oct. 1865	James Rock the younger.
Machinery for the preparation and spinning of flax and other fibrous substances.	2778	28th Oct. 1865	James Combe.
Door springs - - - - - - -	2917	13th Nov. 1865	William Williams.
Improvements in helical or spiral springs for upholstery and other purposes, and in machinery for manufacturing the same. (*Communicated by Frederick Chesbrow Payne and John Spencer Giles.*)	3023	24th Nov. 1865	William Edward Newton.
STABLES, HORSE BOXES, FEEDING TROUGHS, CATTLE SHEDS.			
An improvement in fitting sliding partitions in stables and other buildings.	610	4th March 1865	Louis Le Chevallier Cottam.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes - - (*horse boxes.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
Improvements in fittings for stables, cowsheds and piggeries, and in effluvium traps for stables and other places.	2499	28th Sept. 1865	Edward Cottam.
Machinery or apparatus for preparing and supplying food for cattle. (*feeding-trough.*)	2514	30th Sept. 1865	Robert Willacy.
Improvements in supplying cattle with food and water on railways, and in the apparatus or means connected therewith.	2909	11th Nov. 1865	William Reid.
Improvements in disinfecting stables and cattle sheds, and in the apparatus employed therein.	3075	30th Nov. 1865	John Gamgee.
Manufacture of disinfectants - - - (*for cattle sheds.*)	3115	4th Dec. 1865	John Thomlinson.
Manufacture of tanks, baths, mangers and other vessels.	3129	5th Dec. 1865	Edward Headly.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STAMPS, LABELS AND TICKETS; PERFORATING, DAMPING, FIXING AND OBLITERATING STAMPS; STAMPING AND MARKING.			
Apparatus for affixing postage and other gummed stamps and labels.	379	10th Feb. 1865	Herbert William Hart.
Apparatus for stamping and marking - - (*Communicated by Alexandre Mathieu.*)	885	27th March 1865	George Bishop.
Vessels or apparatus for melting sealing wax, glue or other substances. (*Communicated by Frederick Kührmann.*)	931	3rd April 1865	William Bünger.
Manufacture of postage and other stamps - - (*Communicated by Samuel Ward Francis.*)	936	3rd April 1865	John Henry Johnson.
Cases or receptacles for matches, stamps, cards and other articles - - - - -	1121	21st April 1865	George Betjemann. George William Betjemann. John Betjemann.
Tablets, tickets or instruments to be used when drawing lots and prizes, and for such like purposes.	1196	29th April 1865	Charles Gammon.
Stamping or signing letters, papers or other objects - - - - - - -	1366	18th May 1865	Carl Fischer. Johann Carl Wilhelm Maas.
An improved hand stamp for printing letters, numerals and other figures.	1536	5th June 1865	Alfred Johnson Aspinall.
Hammers and other machines actuated by steam or other fluid or vapour - - - (*machines for stamping.*)	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Manufacture of chains, bracelets, necklaces and other articles of jewelry. (*forming by pressure.*)	1794	7th July 1865	Pierre Mathurin Charles Béziel.
Certain improvements in envelope machines - - (*Communicated by Thomas Vezie Waymoth, Henry Clay Berlin and George Jones.*)	1896	20th July 1865	Alfred Vincent Newton.
Instruments for marking or impressing railway tickets.	1948	27th July 1865	Russell Mortimer.
Vessels or apparatus for melting sealing wax, glue or other substances. (*Communicated by Frederick Kührmann.*)	2281	5th Sept. 1865	William Bünger.
An improved mode of and apparatus for securing the labels of trucks and invoices of goods conveyed on railways.	2407	21st Sept. 1865	Edwin William Collier.
Apparatus for affixing postage stamps and other labels to letters and documents.	2412	21st Sept. 1865	Henry Albert Davis.
Securing or fastening envelopes - - -	2430	23rd Sept. 1865	The Honourable Jane Elizabeth Tuchet.
Apparatus for impressing designs upon biscuits made by machinery.	2508	29th Sept. 1865	George Gillett.
Manufacture of lozenges, cakes and other similar articles, from plastic substances. (*stamping.*)	2534	3rd Oct. 1865	Charles James Tinker.
Improvements in and adaptation of cylinder printing machines to the double purpose of letter press and lithography, also a new mode of damping litho' stones, and a new mode of registering and pointing in such machines.	2999	22nd Nov. 1865	Thomas William Nicholson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STAMPS, &c.—*continued.*			
Machinery or apparatus for stamping or impressing railway or other tickets.	3005	22nd Nov. 1865	Alfred Lancefield.
A new method of and apparatus for damping and affixing adhesive stamps - - - -	3335	23rd Dec. 1865	William Gill. Buckingham Bird.
Apparatus for damping and gumming labels, stamps, envelopes and sheets of paper - -	3343	27th Dec. 1865	Joseph Benn. George Oswald Luckman
STARCH, SIZE, GLUE, GUM, GUMALINE.			
A new or improved apparatus and means for ascertaining the quality and condition of grain and seed. (*amount of gluten.*) (*Communicated by Christian Joseph Schmitz.*)	632	7th March 1865	William Bünger.
Vessels or apparatus for melting sealing wax, glue or other substances. (*Communicated by Frederick Kührmann.*)	931	3rd April 1865	William Bünger.
Preparation and treatment of gun cotton - -	1102	20th April 1865	Frederick Augustus Abel.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - - (*and in making size for paper.*)	1117	21st April 1865	William Scarratt. William Dean.
Improvements in the manufacture of waterproof fabrics and in apparatus to be employed therein	1159	25th April 1865	John Collins Wickham. Auguste Edward Deiss.
The manufacture of a new resinous gum or balsam (*Communicated by Benjamin Hawkins Dods.*)	1173	26th April 1865	George Tomlinson Bousfield.
Treating rice and other grain for the manufacture of starch, also to prepare them for use as food and for other purposes.	1319	12th May 1865	Henry Ransford.
An improved sizing material to be employed for sizing or dressing yarns preparatory to weaving. (*Communicated by John Ulric Billwiller.*)	1906	21st July 1865	Edward Schaub.
Manufacture of anti-flammable starch - -	1946	26th July 1865	Tobiah Pepper.
Apparatus for filtering sugar and other liquid solutions - - - - - -	2023	4th Aug. 1865	Jean Adolphe Leon. George Teesimond. John Kissack.
Vessels or apparatus for melting sealing wax, glue or other substances. (*Communicated by Frederick Kührmann.*)	2281	5th Sept. 1865	William Bünger.
Manufacture of artificial gum, size, or stiffening matter.	2810	1st Nov. 1865	John Sellars.
The conversion of the refuse of starch and gumaline into useful gumaline.	3262	18th Dec. 1865	William Ebenezer Dobson.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM AND OTHER BOILERS; CLEANSING AND PREVENTING INCRUSTATION OF BOILERS; WATER-FEEDING APPARATUS FOR BOILERS.			
I.—Constructing Steam and other Boilers; Generating and Superheating Steam; Preventing Boiler Explosions.			
An improved jacket or protector for metallic and other vessels and structures containing solid substances, liquids or gases, to prevent radiation of heat from or communication of heat to such vessels and structures - - - - - (*for steam-boilers.*)	4	2nd Jan. 1865	Edward Bevan. Abel Fleming.
Means of and apparatus for generating steam and heat.	33	5th Jan. 1865	John Malsbury Kirby.
Certain improvements in the construction of tubular boilers and in the means for cleaning the tubes of such boilers - - - - -	37	5th Jan. 1865	James Chapman Amos. William Anderson.
Motive-power and means of communication between passengers while travelling, and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Improvements in furnace flues for the consumption of smoke.	94	11th Jan. 1865	Abraham Cooper.
Furnaces - - - - - - - (*Communicated by Dominique Chiado.*)	103	12th Jan. 1865	Michael Henry.
Boilers for generating steam - - - - -	113	13th Jan. 1865	Richard Lewis.
Furnaces for melting metals and smelting ores -	209	24th Jan. 1865	William Woodward. Robert Woodward. John Woodward. Adam Woodward, jun^{r}.
Improvements in steam generators or steam-boilers and furnaces, part of which is also applicable to other heat generating apparatus.	243	27th Jan. 1865	Joseph Twibill.
The application of hydro-electricity to steam for the purpose of increasing its expansion and power, and the machinery or apparatus connected therewith, and also the application of galvano or frictional electricity for the same purpose - - - - - - - -	273	31st Jan. 1865	Joseph Fletcher. Daniel Hamer.
Improved apparatus for preventing the explosion of steam-boilers.	305	3rd Feb. 1865	John Westerby.
Steam generators - - - - - -	345	7th Feb. 1865	John Lake.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines.	395	11th Feb. 1865	John Cass.
Steam-boilers - - - - - -	401	13th Feb. 1865	Robert William Thomson.
An improved blowing apparatus - - - - - (*for boiler makers.*)	427	15th Feb. 1865	Samuel Richards Freeman. Abraham Grundy.
Improvements in puddling furnaces and in apparatus connected therewith. (*and steam-boilers.*)	473	18th Feb. 1865	John Gay Newton Alleyne.
Boilers for heating water and delivering it at an equal temperature to any number of flow pipes, and also for the generation of steam.	493	22nd Feb. 1865	Jasper Hulley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
An improved method of extracting gases from mineral oils, and in employing the same for illuminating and heat producing purposes, and in the machinery or apparatus connected therewith. (*for generating steam.*)	549	27th Feb. 1865	William Sim.
Making the joints of steam generators and parts connected therewith.	582	2nd March 1865	John Muir Hetherington.
Smoke consuming apparatus - - -	584	2nd March 1865	Samuel Hopkinson. Edwin Hopkinson.
Steam generators - - - - - (*Communicated by Henry Brown.*)	607	4th March 1865	John Henry Johnson.
Combining marine steam-boilers - - - -	613	4th March 1865	Edward Humphrys.
Tubular boilers - - - - - (*Communicated by Louis Felix Meunier.*)	634	7th March 1865	Richard Archibald Brooman.
Steam-boilers and the furnaces thereof - - -	685	11th March 1865	Edward Brown Wilson. James Howden.
Construction of steam generators and evaporators - (*Communicated by Eli Thayer and Sabin Peters Pond.*)	743	16th March 1865	Alfred Vincent Newton.
Apparatus for generating steam - - - (*Communicated by Peter Corfits Möller.*)	771	20th March 1865	Johann Tobias Rominger.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Means and apparatus for utilizing the heat of steam	854	25th March 1865	David Estler Blacke.
Certain improvements in non-conducting composition for preventing the radiation or transmission of heat or cold. (*for building or stopping up boilers.*)	864	27th March 1865	Ferdinand Le Roy.
Steam-boilers - - - - - -	906	31st March 1865	John Swarbrick. David Swarbrick. Benjamin Swarbrick. Ormerod Swarbrick.
Improvements in or applicable to boilers furnished with pipes for the circulation of water for domestic purposes.	974	6th April 1865	John Brown.
Steam-boilers, steam-boiler tubes, sides of steam-boilers' flues and furnaces.	988	7th April 1865	George Rydill.
Improvements in steam generators applicable also to condensers or coolers. (*Communicated by Thomas Luders.*)	1029	11th April 1865	John Henry Johnson.
Arrangement of furnaces used for puddling and reheating iron, the generation of steam and other similar purposes.	1064	13th April 1865	William Beardmore.
An improved safety apparatus for steam-boilers -	1066	15th April 1865	John Minton Courtauld.
Apparatus for preventing explosions in steam-boilers	1095	20th April 1865	John Hocking the younger.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Steam-engines - - - - - (*Communicated by Ebenezer Danford.*)	1264	6th May 1865	William Edward Newton.
Improvements in means or apparatus for fixing or tightening the ends of boiler and other tubes, and in cutting the ends or other parts of such tubes.	1282	9th May 1865	Ralph Hart Tweddell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Machinery for drilling boiler and other plates of metal, and for rivetting them together.	1291	10th May 1865	Daniel Adamson.
A combined safety valve regulator, pressure gauge, water indicator, alarm and "blow off" for steam generators. (*Communicated by Peter Riordan.*)	1305	11th May 1865	John Henry Johnson.
An improved economic boiler for hot water apparatus, applicable for the heating of hot houses, churches and other public buildings.	1510	1st June 1865	Frederick Knight.
Steam-boilers - - - - - (*Communicated by Abram Samuel Mitchell.*)	1521	2nd June 1865	Henry Edward Newton.
Safety apparatus for steam-boilers - - -	1523	2nd June 1865	James Shepherd.
An improved method of generating heat, and apparatus or means for effecting the same - -	1559	7th June 1865	William Sim. Arthur Barff.
Furnaces - - - - - - (*Communicated by François Durand.*)	1590	12th June 1865	Richard Archibald Brooman.
Multitubular hot water boilers - - -	1614	14th June 1865	Henry Ormson.
Generating steam - - - - - -	1622	15th June 1865	Matthew Piers Watt Boulton.
Improvements in distilling and rectifying, and in the apparatus employed therein, parts of which improvements are applicable to steam generators.	1662	20th June 1865	Evariste Vignier.
Improvements in steam-boilers, furnaces, and engines, and in parts connected therewith.	1745	30th June 1865	Edwin Elliott.
Means and apparatus for increasing the mechanical power of steam.	1820	10th July 1865	William Alexander Lyttle.
Making skelps for iron or steel tubes direct from the rolls, and for machinery to be used in the same.	1858	15th July 1865	Samuel Hingley.
Steam-boilers or generators - - -	1869	18th July 1865	Andrew Barclay.
Means or method of applying mineral oils for generating steam and heat. (*Partly communicated by Alexandre Szpis.*)	1928	25th July 1865	Wladislaus Zbyszewski.
Apparatus for burning combustible and volatile liquids for generating steam and similar purposes. (*Communicated by Patrick Hayes.*)	1938	26th July 1865	George Tomlinson Bousfield.
Construction of cooking stoves and ranges - -	1944	26th July 1865	William Barton.
Means of and apparatus for treating animal and vegetable fibrous materials, which apparatus is also applicable to various useful purposes. (*producing steam.*)	1952	27th July 1865	Henry Sherwood.
Improvements in the manufacture of hoops and tyres, and in the machinery employed therein. (*hoops for making boilers.*)	1975	31st July 1865	John Ramsbottom.
Locomotive and other tubular boilers - -	1990	1st Aug. 1865	Louis Emile Constant Martin.
Obtaining motive-power by heat - - - (*producing steam.*)	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Machinery to be used in the manufacture of plate or sheet iron and steel. (*Communicated by Matin Dieudonné Henvaux.*)	2012	3rd Aug. 1865	Ephraim Sabel.
Improvements in generating steam and in heating steam and aëriform fluids.	2051	7th Aug. 1865	Matthew Piers Watt Boulton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in the preparation or production of spongy metals, and in their applications. (*for lining steam generators.*) (*Communicated by François Dripet.*)	2106	15th Aug. 1865	John Henry Johnson.
Method of heating the ovens and boilers of kitchen ranges or cooking stoves.	2176	24th Aug. 1865	Frederick Thomas.
Steam-boilers or generators - - - (*Communicated by Henry Clark Sargeant.*)	2189	25th Aug. 1865	William Edward Newton.
Construction of apparatus for distilling and rectifying alcohols. (*steam regulator.*) (*Communicated by François Desiré Savalle.*)	2203	28th Aug. 1865	Henri Adrien Bonneville.
The manufacture of boiler and tea kettle bottoms, and every other description of die-struck hollow ware.	2237	31st Aug. 1865	Michael Judge.
Tubular steam-boilers or generators for agricultural or other locomotive steam-engines.	2260	1st Sept. 1865	John Lake.
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M'Callum.
An improved method of fixing and unfixing the tubes of steam-boilers. (*Communicated by Daniel M'Dowell.*)	2284	6th Sept. 1865	Samuel Soutar.
Improvements in boilers and furnaces and in cleansing the flues thereof - - -	2291	6th Sept. 1865	Edward Green. Edward Green the younger.
An improved safety valve for steam boilers - -	2323	11th Sept. 1865	Henry Hackett. Thomas Wrigley. Edmund Pearson.
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron - (*for heating boilers.*)	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Preparing peat or turf for fire lights and fuel, and for machinery to be employed therein. (*for steam boilers.*)	2436	23rd Sept. 1865	Thomas Vincent Lee.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary.	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Compositions used for coating metallic surfaces - (*boilers.*)	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Apparatus for heating, evaporating and cooling liquids - - - - - - -	2494	28th Sept. 1865	Isaac Smith. William Fothergill Batho.
Improvements in producing and combining gases to be used for heating purposes, and in the construction of retorts for producing and combining such gases. (*for generating steam.*)	2527	2nd Oct. 1865	Silas Covell Salisbury.
Improvements in the manufacture of sheet iron or steel cylinders for boilers and similar articles, and in the apparatus relating thereto. (*Communicated by Benôit Bouniard.*)	2529	3rd Oct. 1865	Henri Adrien Bonneville.
An improved mode of generating steam - -	2604	10th Oct. 1865	John Sturgeon.
An improved ventilating apparatus for use in steam boats, vessels and other places requiring to be ventilated.	2609	10th Oct. 1865	John Garrison Woodward.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, jun'., and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
Caloric or hot air engines - - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François Georges Sicardo.
Furnaces - - - - - - -	2682	17th Oct. 1865	William Beardmore.
An improved apparatus for forming or repairing the mouths of boiler and other tubes. (*Communicated by Edward Clark.*)	2697	19th Oct. 1865	George Reverdy Ghiselin.
Improvements in the manufacture of inflammable gases and in their application to useful purposes. (*for generation of steam.*)	2719	21st Oct. 1865	Isham Baggs.
Steam-boilers - - - - - -	2738	23rd Oct. 1865	Alexander Chaplin.
Construction of furnaces and boilers for the consumption of smoke - - - - -	2746	24th Oct. 1865	Charles Matthews. Henry Booth Southwick. John Fereday.
Generating steam in combined vertical cylinders -	2776	28th Oct. 1865	Thomas Brown Jordon.
Improvements in steam hammers and in means of applying them to the manufacture of boilers and tubes.	2805	31st Oct. 1865	Charles Emmet.
Improvements in generating and applying certain gases, and in apparatus to be employed therein. (*heating steam-boilers.*)	2833	2nd Nov. 1865	James Webster.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating steam-boilers.*)	2853	4th Nov. 1865	James Thys.
Railway steam-engines and carriages - - (*constructing the boiler.*)	2928	14th Nov. 1865	Joseph Alphonse Loubat.
An improved method of utilizing the waste heat of coke ovens. (*vaporising water.*) (*Communicated by Antoine Barbier-Perroton.*)	3048	28th Nov. 1865	William Edward Gedge.
Furnaces - - - - - - -	3095	2nd Dec. 1865	Edward Brown Wilson.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Improvements in steam-boilers and in apparatus adapted for cleaning the flues of boilers.	3184	9th Dec. 1865	Norman Willis Wheeler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in locomotive engines and in the means employed for generating steam therein.	3185	9th Dec. 1865	Robert Francis Fairlie.
Steam-boilers or apparatus for generating steam -	3191	11th Dec. 1865	John Townsend.
An improved construction of tool for cutting tubes - (*Boiler tubes.*) (*Communicated by David Mosher Nichols.*)	3214	12th Dec. 1865	Alfred Vincent Newton.
An improved boiler for generating steam or vapour	3235	14th Dec. 1865	John Charles Wilson.
Improved apparatus for manufacturing paper pulp (*employing a rotating boiler.*)	3245	14th Dec. 1865	William Alfred West.
Boilers or apparatus for generating steam - - (*Communicated by James Bourne.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
Cocks or valves - - - - - - (*Communicated by Henry Moore.*)	3333	23rd Dec. 1865	Charles Woodward Moore.
Steam-boilers or generators - - -	3360	29th Dec. 1865	Andrew Barclay.

See also "FURNACES."
See also "GAUGES."

II.—Cleansing and Preventing Incrustation of Boilers; Purifying the Water.

[illegible] - - - - -	37	3rd Jan. 1865	James Chapman Archbold, William Anderson.
[illegible]	129	14th Jan. 1865	George Davies.
[illegible]	229	26th Jan. 1865	Charles Denton Abel.
Steam-boilers - - - - -	402	21st Feb. 1865	Robert William Thomson.
[illegible]	1288	22nd April 1865	Alfred Vincent Newton.
[illegible]	1324	2nd May 1865	William Henry.
[illegible]	1479	23rd May 1865	James Hare the younger.
[illegible]	1621	9th June 1865	Thomas Rowbotham, William Henry Rowbotham.
[illegible]	1632	9th June 1865	Matthew Piers Watt Boulton.
[illegible]	1734	20th June 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee
STEAM-BOILERS, &c.—*continued.*			
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M'Callum.
An improved method of fixing and unfixing the tubes of steam-boilers. (*Communicated by Daniel M'Dowell.*)	2284	6th Sept. 1865	Samuel Soutar.
An improved mode of removing and preventing the incrustation of steam-boilers - -	2321	11th Sept. 1865	William Tyne. Stephen Tyne. Robert Clayton.
An improved composition for preventing incrustation in steam-boilers - - - -	2322	11th Sept. 1865	William Hewitt.
Improved apparatus for cleaning the tubes of steam-boilers. (*Communicated by Daniel M'Dowell.*)	2346	13th Sept. 1865	Samuel Soutar.
An improved liquid compound for purifying sea and other waters. (*preventing incrustation.*) (*Communicated by Léandre Danjou.*)	2646	13th Oct. 1865	Richard Archibald Brooman.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field Enoch Harrison Aydon.
An improved mode of and apparatus for cleaning the tubes of steam-boilers. (*Communicated by Abraham Egenton.*)	2761	26th Oct. 1865	George Davies.
Apparatus for preventing incrustation in steam-boilers.	3122	5th Dec. 1865	Josef Toth.
Boilers or apparatus for generating steam - - (*securing from deposit or incrustation.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
III.—Water-feeding Apparatus for Boilers; Heating Feed-water.			
Improvements in and applicable to that and similar apparatus for raising and forcing fluids and feeding steam-boilers, known as "Giffard's Injector."	410	14th Feb. 1865	James Gresham.
An improved construction of Giffard injector - (*Communicated by William Sellers.*)	1051	12th April 1865	Alfred Vincent Newton.
Apparatus for feeding boilers, raising water and propelling vessels. (*Communicated by Pierre Samain.*)	1062	13th April 1865	Richard Archibald Brooman.
An improved apparatus for condensing steam and feeding boilers with the product therefrom.	1180	27th April 1865	Anthony Francis.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Improvements in surface condensers for steam-engines, and in feeding boilers therefrom.	1669	21st June 1865	Charles Talbot Porter.
Improved apparatus for supplying boilers with water. (*Communicated by Gustav Adolph Riedel.*)	2211	28th Aug. 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M'Callum.
Furnaces of and means of heating the feed water for steam-boilers.	2712	20th Oct. 1865	John White.
An improved self-acting boiler feeder, or apparatus for supplying steam-boilers with water.	2849	4th Nov. 1865	Patrick Benignus O'Ne
Apparatus for heating the feed water for steam-boilers.	2920	13th Nov. 1865	James Heywood Whitehead.
Certain apparatus for injecting and ejecting fluids and liquids.	3179	9th Dec. 1865	Andrew Barclay.
Pumps - - - - - - - (*for feeding boilers.*)	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Bra
Improvements in distilling and in relieving distilled and other liquids from gases mechanically mixed therewith. (*used in supplying boilers.*)	3351	27th Dec. 1865	Norman Willis Wheele
STEAM-ENGINES (*Stationary, Locomotive and Marine*).			
Improvements in the manufacture of elastic packings for pistons, and in lubricating compositions therefor.	19	4th Jan. 1865	Edward Keirby.
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edwards Wilson.
Locomotive engines - - - - (*Communicated by Auguste De Bergue.*)	48	6th Jan. 1865	Charles De Bergue.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - (*Communicated by Philibert Vabe.*)	111	13th Jan. 1865	William Brookes.
Apparatus for transmitting and converting reciprocating motion into rotary motion, applicable to various useful purposes. (*locomotive engines.*)	145	17th Jan. 1865	William John Cunningham.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydraulic presses.	155	18th Jan. 1865	William Robert Foster.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - -	166	19th Jan. 1865	William Cleveland Hicks.
Locomotive and other steam-engines - -	167	19th Jan. 1865	Thomas Charles Durham.
Steam-engines - - - - -	183	21st Jan. 1865	Thomas Lester.
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES—*continued.*			
Construction of steam-engines - - (*Communicated by Pierre Jean Lacoste.*)	260	30th Jan. 1865	George Davies.
The application of hydro-electricity to steam for the purpose of increasing its expansion and power, and the machinery or apparatus connected therewith, and also the application of galvano or frictional electricity for the same purpose - - - -	273	31st Jan. 1865	Joseph Fletcher. Daniel Hamer.
An improved construction of lubricating apparatus for steam-engine purposes - - -	274	31st Jan. 1865	Ewing Pye Colquhoun. John Pardoe Ferris.
Steam-engines - - - - -	338	7th Feb. 1865	Charles Lungley.
Expansion gear for steam-engines - -	415	14th Feb. 1865	William Fothergill Batho.
Beam engines - - - - -	468	18th Feb. 1865	James Grafton Jones.
Steam-engines - - - -	485	21st Feb. 1865	John Russell Swann.
A new and improved balanced slide valve - - (*Communicated by James Rankin.*)	496	22nd Feb. 1865	William Edward Newton.
Steam-engines applicable to ploughing and other agricultural purposes.	522	24th Feb. 1865	James Howard.
Marine steam-engines - - -	643	8th March 1865	John Dean.
Motive-power engines - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Increasing the mechanical value of steam as a motive agent. (*Communicated by Thomas Ewbank.*)	748	17th March 1865	Benjamin Lawrence.
Improved combinations of direct acting steam-engines with single or double acting pumps, for pumping water, air or gases.	751	17th March 1865	Jacob Goodfellow.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Double cylinder steam-engines - -	860	27th March 1865	Joshua Rooke.
Traction engines - - - - -	863	27th March 1865	John Bruckshaw. William Scott Underhill.
Improvements in the construction of locomotive engines and railway carriages, for facilitating their passage round curves - - - (*Communicated by George John Horner.*)	916	31st March 1865	George Robert Stephenson. George Henry Phipps.
Improvements in paddle wheels, parts of which are applicable to other purposes. (*to steam-engines.*)	935	3rd April 1865	William Cantrill Gollings.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
Improvements in steam and atmospheric hammers and presses, which improvements are also applicable to steam-engines.	953	4th April 1865	Joseph Vaughan.
Traction engines - - - - -	962	5th April 1865	John Gay Newton Alleyne.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid.	982	6th April 1865	James Grafton Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name
STEAM-ENGINES—*continued.*			
An improved application of steam power to locomotion on ordinary roads. (*Communicated by Alfred Taillendeau.*)	1002	8th April 1865	William Ev
Improvements in steam-engines relating to valve motions governor and drain pipes - -	1195	29th April 1865	Andrew [illegible] John M[illegible]
Marine steam-engines - - - - -	1212	1st May 1865	Duncan [illegible]
Improvements in steam generators and engines and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John H[illegible]
Improvements in or applicable to marine condensing steam-engines.	1253	4th May 1865	Thomas W[illegible]
Steam-engines - - - - - - (*Communicated by Ebenezer Danford.*)	1264	6th May 1865	William [illegible]
Mode of and apparatus for obtaining and applying motive-power - - - - - -	1303	10th May 1865	Stanislas [illegible] Michel M[illegible]
Means and apparatus for effecting traction on railways and roads where traction is used - -	1323	12th May 1865	Richard [illegible] van. Daniel O'[illegible]
Locomotive engines - - - - -	1358	16th May 1865	Walter M[illegible]
A new system of rotative machines to be used as steam-engines and water pumps.	1447	26th May 1865	Jean Alph[illegible]
A new or improved machine for obtaining motive-power and other useful purposes.	1468	29th May 1865	Henry M[illegible]
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkin[illegible]
Improvements in machinery or apparatus for actuating the slide-valves of marine engines and in the slide-valves thereof.	1538	5th June 1865	John Robert[illegible]
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick T[illegible]
An improved metallic stuffing box - -	1555	7th June 1865	Victor Duterne.
Improvements in safety valves, which improvements are also applicable to steam-engine and other valves - - - - - -	1575	9th June 1865	Charles Verner. William Hod[illegible]
Improvements in the permanent way of railways and in locomotives applicable thereto.	1593	12th June 1865	William James H[illegible]
Locomotive engines and railway carriages - -	1646	19th June 1865	George Smith [illegible] younger.
Improvements in surface condensers for steam-engines and in feeding boilers therefrom.	1669	21st June 1865	Charles Talbot Pa[illegible]
Surface condensers - - - - - (*Communicated by Alban Crocker Stimers.*)	1677	22nd June 1865	William Edward N[illegible]
Improvements in steam-boilers, furnaces and engines, and in parts connected therewith.	1745	30th June 1865	Edwin Elliott.
Locomotive engines - - - - - (*Communicated by Auguste de Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Steam pumping machines or engines - -	1760	3rd July 1865	Martin Benson.
Improvements in locomotive engines and in springs of railway carriages.	1769	4th July 1865	James Edwards Wilso[illegible]
Means and apparatus for increasing the mechanical power of steam.	1820	10th July 1865	William Alexander Ly[illegible]

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES— *continued.*			
rovements in steam carriages and in adapting heels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
aining motive-power - - - - - (*Communicated by Monsieur Charles Tellier.*)	1832	11th July 1865	Hector Auguste Dufrené.
am and water valves - - - - -	1834	11th July 1865	Nathaniel Jenkins.
ction engines - - - - - - (*Communicated by Alexander Keene Richards.*)	1836	11th July 1865	Morris Horsey Keene.
de valves - - - - - -	1893	20th July 1865	Richard Clark Bristol.
ndensing apparatus for steam-engines - -	1897	20th July 1865	Morgan Lawrence Parry.
nstruction of valves for steam and other engines - (*Communicated by Thomas Skrimton Davis.*)	1913	22nd July 1865	William Edward Newton.
nical plug steam valves - - - - (*Communicated by John Wesley Carhart.*)	1956	28th July 1865	William Edward Newton.
n improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
btaining motive-power by heat - - -	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
nprovements in and apparatus for treating peat in bogs and obtaining it therefrom, also applicable to tilling and cultivating land - - -	2004	2nd Aug. 1865	Charles Hodgson.
pparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
onstruction of steam-engines - - -	2062	9th Aug. 1865	Henry Cartwright.
An improved mode of relieving slide-valves of back pressure.	2069	9th Aug. 1865	James William Longstaff.
Apparatus for obtaining and applying motive-power to various useful purposes - - - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Steam-engines - - - - - (*Communicated by Giovanni Batista Venzano.*)	2130	18th Aug. 1865	James Stevenson.
Certain improvements in rotatory engines - -	2202	28th Aug. 1865	William Graham. John Broughton. Thomas Corkhill.
Traction engines and other vehicles - -	2234	30th Aug. 1865	Samuel Lawrence James.
Certain improvements in steam-engines and valves - (*Communicated by George Ichabod Washburn.*)	2266	6th Sept. 1865	William Clark.
A new method of and apparatus for condensing the steam of steam-engines.	2276	18th Sept. 1865	Francesco Daina.
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages.	2279	18th Sept. 1865	Russel Aitken.
Apparatus for lubricating machinery - - (*steam-engines.*) (*Communicated by Joseph Bouillon.*)	2429	23rd Sept. 1865	Henri Adrien Bonneville.
An improved construction of engine which can be used either as a motor or for pumping. (*Communicated by John Benjamin Root and William Benjamin.*)	2453	25th Sept. 1865	William Edward Newton.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for tightening piston packing rings.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES—*continued.*			
Steam-engines	2479	27th Sept. 1865	John Rodger Arnoldi.
Compositions used for coating metallic surfaces (*steam cylinders.*)	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Steam-engines (*Communicated by Nicolas Chenet and Pierre Jean Lacoste.*)	2502	29th Sept. 1865	William Edward Gedge.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor.	2563	5th Oct. 1865	Robert William Fraser.
Rotary engines and pumps (*Communicated by Fidèle Chatelain.*)	2567	6th Oct. 1865	Richard Archibald Brooman.
Construction of compound cylinder engines (*Communicated by Matthew Murray Jackson.*)	2587	7th Oct. 1865	John Howard.
Railway carriages and locomotives (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Improvements in and applicable to slide valves, pistons and glands	2700	19th Oct. 1865	Thomas Adams. George John Parson.
Steam-engines	2759	26th Oct. 1865	Edmund Hunt.
Certain improvements in mechanism or apparatus to be employed for lubricating the cylinders of steam-engines, or other similar frictional surfaces	2881	8th Nov. 1865	Neville Beard. John Maiden.
Railway steam-engines and carriages	2928	14th Nov. 1865	Joseph Alphonse Loubat.
A new or improved steam wheel and apparatus connected therewith. (*Communicated by Jean Gabriel Alphonse Appé.*)	3037	27th Nov. 1865	William Edward Gedge.
A new or improved method of preventing the escape of heat from steam cylinders	3051	28th Nov. 1865	William Simons. Andrew Brown.
Improvements in locomotive engines and in the means employed for generating steam therein.	3185	9th Dec. 1865	Robert Francis Fairlie.
Steam-engines	3213	12th Dec. 1865	Joseph Stocker.
An improved construction of rotary engine	3225	13th Dec. 1865	Peter Gardner.
Machinery or apparatus for cultivating land by steam power.	3226	13th Dec. 1865	Pryce William Bowen.
Locomotive engines	3259	16th Dec. 1865	James Atkinson Longridge.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Pistons (*Communicated by David Lister.*)	3279	19th Dec. 1865	John Henry Johnson.
Steam-engines (*Communicated by George Bender Whiting and Thomas Fitch Rowland.*)	3308	22nd Dec. 1865	William Clark.
Duplex steam-engines	3350	27th Dec. 1865	Norman Willis Wheeler.
Steam-engines	3380	30th Dec. 1865	Richard Beck.

See also "GUAGES."
See also "GOVERNORS."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING OR GUIDING SHIPS, CARRIAGES, PLOUGHS, &c.			
A new or improved hydraulic steering apparatus and rudder break	118	14th Jan. 1865	Alfred Paul. Edwin Paul.
Differential wheel gearing (*for steering.*)	744	17th March 1865	John Standfield.
Traction engines (*apparatus for steering.*)	863	27th March 1865	John Bruckshaw. William Scott Underhill.
Navigable balloons	930	1st April 1865	Paul Haenlein.
A new apparatus or mechanism for flying through the air.	1037	12th April 1865	Gustave Wilhelm Rothleb.
Machinery for cultivating land (*Partly communicated by Max Eyth.*)	1104	20th April 1865	David Greig.
Improvements in the construction of ships of war and floating batteries, part of which improvements are applicable to land fortifications.	1107	20th April 1865	Henry Caudwell.
Improvements in steering ships or vessels, and in the machinery or apparatus connected therewith.	1157	25th April 1865	William Elder.
Apparatus for steering ships, steamboats and other sailing vessels.	1394	20th May 1865	John Martin.
Apparatus for propelling and steering vessels	1481	30th May 1865	Jonathan Jopling.
Improved mechanical arrangements for steering ships and other navigable vessels.	1496	31st May 1865	William Augustus Brown.
Apparatus for steering ships and vessels	1577	9th June 1865	William Horatio Harfield.
Improvements in the permanent way of railways and in locomotives applicable thereto.	1593	12th June 1865	William James Hixon.
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
Traction engines (*Communicated by Alexander Keene Richards.*)	1836	11th July 1865	Morris Horsey Keene.
Rudders for steering ships or vessels	1919	24th July 1865	John McGrigor Croft.
Traction engines and other vehicles (*steering wheels.*)	2234	30th Aug. 1865	Samuel Lawrence James.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor.	2563	5th Oct. 1865	Robert William Fraser.
Carriages propelled by manual power (*and guiding carriages.*)	2623	11th Oct. 1865	Thomas Du Boulay.
Steering indicators and tell-tales	2864	7th Nov. 1865	Charles Jullien Viehoff. James Adolphe Matthiessen.
Steering gear for navigable vessels (*Hydraulic gear.*)	2865	7th Nov. 1865	William Esplen. James Clarke.
Means of and apparatus for steering ships and other floating bodies	2938	15th Nov. 1865	Charles Atherton. Amherst Hawker Renton.
An improved construction of steering apparatus	3171	9th Dec. 1865	Samuel Clark.
Steering indicators and tell-tales	3341	26th Dec. 1865	Charles Jullien Viehoff. James Adolphe Matthiessen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in the preparation or production of spongy metals, and in their applications. (*for lining steam generators.*) (*Communicated by François Drivet.*)	2106	15th Aug. 1865	John Henry Johnson.
Method of heating the ovens and boilers of kitchen ranges or cooking stoves.	2176	24th Aug. 1865	Frederick Thomas.
Steam-boilers or generators - - - (*Communicated by Henry Clark Sargeant.*)	2189	25th Aug. 1865	William Edward Newton.
Construction of apparatus for distilling and rectifying alcohols. (*steam regulator.*) (*Communicated by François Desiré Savalle.*)	2203	28th Aug. 1865	Henri Adrien Bonneville.
The manufacture of boiler and tea kettle bottoms, and every other description of die-struck hollow ware.	2237	31st Aug. 1865	Michael Judge.
Tubular steam-boilers or generators for agricultural or other locomotive steam-engines.	2260	1st Sept. 1865	John Lake.
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M^{c}Callum.
An improved method of fixing and unfixing the tubes of steam-boilers. (*Communicated by Daniel M^{c}Dowell.*)	2284	6th Sept. 1865	Samuel Soutar.
Improvements in boilers and furnaces and in cleansing the flues thereof - - - -	2291	6th Sept. 1865	Edward Green. Edward Green the younger.
An improved safety valve for steam boilers - -	2323	11th Sept. 1865	Henry Hackett. Thomas Wrigley. Edmund Pearson.
Apparatus for separating dust from the gases evolved from blast furnaces for smelting iron - (*for heating boilers.*)	2391	19th Sept. 1865	Edward Alfred Cowper. Charles William Siemens.
Preparing peat or turf for fire lights and fuel, and for machinery to be employed therein. (*for steam boilers.*)	2436	23rd Sept. 1865	Thomas Vincent Lee.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary.	2455	26th Sept. 1865	Richard Taylor Nelson Howey.
Compositions used for coating metallic surfaces - (*boilers.*)	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Apparatus for heating, evaporating and cooling liquids - - - - - - -	2494	28th Sept. 1865	Isaac Smith. William Fothergill Batho.
Improvements in producing and combining gases to be used for heating purposes, and in the construction of retorts for producing and combining such gases. (*for generating steam.*)	2527	2nd Oct. 1865	Silas Covell Salisbury.
Improvements in the manufacture of sheet iron or steel cylinders for boilers and similar articles, and in the apparatus relating thereto. (*Communicated by Benôit Bouniard.*)	2529	3rd Oct. 1865	Henri Adrien Bonneville.
An improved mode of generating steam - -	2604	10th Oct. 1865	John Sturgeon.
An improved ventilating apparatus for use in steam boats, vessels and other places requiring to be ventilated.	2609	10th Oct. 1865	John Garrison Woodward.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in the construction of steam generators, applicable also to the construction of condensers, the heating of water generally, and to the warming of buildings. (*Communicated by Joseph Harrison, jun'., and Thomas Luders.*)	2610	10th Oct. 1865	John Henry Johnson.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field. Enoch Harrison Aydon.
Caloric or hot air engines - - - - - (*Communicated by Guillaume Reinlein.*)	2675	17th Oct. 1865	Richard Archibald Brooman.
A new or improved steam consuming apparatus, or an apparatus intended to make available as fuel all or part of the steam actually evolving from engines into the atmosphere, and also to absorb the smoke resulting from the combustion.	2676	17th Oct. 1865	François Georges Sicardo.
Furnaces - - - - - - -	2682	17th Oct. 1865	William Beardmore.
An improved apparatus for forming or repairing the mouths of boiler and other tubes. (*Communicated by Edward Clark.*)	2697	19th Oct. 1865	George Reverdy Ghiselin.
Improvements in the manufacture of inflammable gases and in their application to useful purposes. (*for generation of steam.*)	2719	21st Oct. 1865	Isham Baggs.
Steam-boilers - - - - - -	2738	23rd Oct. 1865	Alexander Chaplin.
Construction of furnaces and boilers for the consumption of smoke - - - - -	2746	24th Oct. 1865	Charles Matthews. Henry Booth Southwick. John Fereday.
Generating steam in combined vertical cylinders -	2776	28th Oct. 1865	Thomas Brown Jordon.
Improvements in steam hammers and in means of applying them to the manufacture of boilers and tubes.	2805	31st Oct. 1865	Charles Emmet.
Improvements in generating and applying certain gases, and in apparatus to be employed therein. (*heating steam-boilers.*)	2833	2nd Nov. 1865	James Webster.
An improved non-conducting composition for preventing the radiation or transmission of heat or cold. (*for coating steam-boilers.*)	2853	4th Nov. 1865	James Thys.
Railway steam-engines and carriages - - (*constructing the boiler.*)	2928	14th Nov. 1865	Joseph Alphonse Loubat.
An improved method of utilizing the waste heat of coke ovens. (*vaporizing water.*) (*Communicated by Antoine Barbier-Perroton.*)	3048	28th Nov. 1865	William Edward Gedge.
Furnaces - - - - - - -	3095	2nd Dec. 1865	Edward Brown Wilson.
Improvements in steam-boilers and in the furnaces and grates thereof, the same improvements in furnaces and grates being also applicable to other furnaces and to stoves. (*Communicated by Robert Winslow Davis, Daniel Davis and Henry Sheldon Anable.*)	3141	6th Dec. 1865	William Edward Newton.
Improvements in steam-boilers and in apparatus adapted for cleaning the flues of boilers.	3184	9th Dec. 1865	Norman Willis Wheeler.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Improvements in locomotive engines and in the means employed for generating steam therein.	3185	9th Dec. 1865	Robert Francis Fairlie.
Steam-boilers or apparatus for generating steam -	3191	11th Dec. 1865	John Townsend.
An improved construction of tool for cutting tubes - (*boiler tubes.*) (*Communicated by David Meeker Nichols.*)	3214	12th Dec. 1865	Alfred Vincent Newton.
An improved boiler for generating steam or vapour	3235	14th Dec. 1865	John Charles Wilson.
Improved apparatus for manufacturing paper pulp (*arranging a rotating boiler.*)	3245	14th Dec. 1865	William Alfred West.
Boilers or apparatus for generating steam - - (*Communicated by Julien Belleville.*)	3269	16th Dec. 1865	Richard Archibald Brooman.
Cocks or valves - - - - - - (*for steam-boilers.*) (*Communicated by Henry Moore.*)	3333	23rd Dec. 1865	Charles Woodward Moore.
Steam-boilers or generators - - -	3369	29th Dec. 1865	Andrew Barclay.
See also "FURNACES." *See also* "GAUGES."			
II.—Cleansing and Preventing Incrustation of Boilers; Purifying the Water.			
Certain improvements in the construction of tubular boilers and in the means for cleaning the tubes of such boilers - - - -	37	5th Jan. 1865	James Chapman Amos. William Anderson.
A method of and apparatus for preventing incrustations or calcareous deposits in steam-boilers. (*Communicated by Alexander Forbes Porter.*)	119	14th Jan. 1865	George Davies.
A new or improved apparatus applicable to steam-boilers for preventing deposits therein. (*Communicated by Louis Hippolyte Courtois-Roubert.*)	219	26th Jan. 1865	Charles Denton Abel.
Steam-boilers - - - - - -	401	13th Feb. 1865	Robert William Thomson.
Improvements in the fitting of surface condenser tubes, and in the tools to be used therein, and in the means of retarding corrosion in steam-boilers. (*Communicated by William Judson.*)	1133	22nd April 1865	Alfred Vincent Newton.
An improved composition for preventing incrustation in steam-boilers.	1324	12th May 1865	William Hewitt.
Instruments or apparatus for cleaning the interior of tubes or hollow cylinders, gas chimneys and other hollow articles. (*flues of steam-boilers.*)	1479	30th May 1865	James Hare the younger.
Improvements in the manufacture of paper and paper stock, and in the utilization of certain waste products resulting therefrom - - (*to prevent incrustation in steam-boilers.*)	1602	13th June 1865	Thomas Routledge. William Henry Richardson.
Generating steam - - - - - -	1622	15th June 1865	Matthew Piers Watt Boulton.
Preventing the incrustation of steam-boilers - (*Communicated by Charles James Eames.*)	1734	29th June 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee
STEAM-BOILERS, &c.—*continued.*			
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter M'Callum.
An improved method of fixing and unfixing the tubes of steam-boilers. (*Communicated by Daniel M'Dowell.*)	2284	6th Sept. 1865	Samuel Soutar.
An improved mode of removing and preventing the incrustation of steam-boilers - -	2321	11th Sept. 1865	William Tyne. Stephen Tyne. Robert Clayton.
An improved composition for preventing incrustation in steam-boilers - - - -	2322	11th Sept. 1865	William Hewitt.
Improved apparatus for cleaning the tubes of steam-boilers. (*Communicated by Daniel M'Dowell.*)	2346	13th Sept. 1865	Samuel Soutar.
An improved liquid compound for purifying sea and other waters. (*preventing incrustation.*) (*Communicated by Léandre Danjou.*)	2646	13th Oct. 1865	Richard Archibald Brooman.
Improvements in steam-boilers and other apparatus applicable to the heating and evaporation of liquids, parts of which improvements are applicable also to other purposes - - -	2661	16th Oct. 1865	Francis Wise. Edward Field Enoch Harrison Aydon.
An improved mode of and apparatus for cleaning the tubes of steam-boilers. (*Communicated by Abraham Egenton.*)	2761	26th Oct. 1865	George Davies.
Apparatus for preventing incrustation in steam-boilers.	3122	5th Dec. 1865	Josef Toth.
Boilers or apparatus for generating steam - - (*securing from deposit or incrustation.*) (*Communicated by Julien Belleville.*)	3269	18th Dec. 1865	Richard Archibald Brooman.
III.—Water-feeding Apparatus for Boilers; Heating Feed-water.			
Improvements in and applicable to that and similar apparatus for raising and forcing fluids and feeding steam-boilers, known as "Giffard's Injector."	410	14th Feb. 1865	James Gresham.
An improved construction of Giffard injector - (*Communicated by William Sellers.*)	1051	12th April 1865	Alfred Vincent Newton.
Apparatus for feeding boilers, raising water and propelling vessels. (*Communicated by Pierre Samain.*)	1062	13th April 1865	Richard Archibald Brooman.
An improved apparatus for condensing steam and feeding boilers with the product therefrom.	1180	27th April 1865	Anthony Francis.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Improvements in surface condensers for steam-engines, and in feeding boilers therefrom.	1669	21st June 1865	Charles Talbot Porter.
Improved apparatus for supplying boilers with water. (*Communicated by Gustav Adolph Riedel.*)	2211	28th Aug. 1865	Alfred Vincent Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-BOILERS, &c.—*continued.*			
Apparatus for preventing incrustation in steam-boilers, and for preventing explosion of such boilers, heating the feed water, and consuming smoke - - - - - - - -	2272	4th Sept. 1865	James Howard. William Stafford. William Porter McCallum.
Furnaces of and means of heating the feed water for steam-boilers.	2712	20th Oct. 1865	John White.
An improved self-acting boiler feeder, or apparatus for supplying steam-boilers with water.	2849	4th Nov. 1865	Patrick Benignus O'Neill.
Apparatus for heating the feed water for steam-boilers.	2920	13th Nov. 1865	James Heywood Whitehead.
Certain apparatus for injecting and ejecting fluids and liquids.	3179	9th Dec. 1865	Andrew Barclay.
Pumps - - - - - - - - (*for feeding boilers.*)	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Brain.
Improvements in distilling and in relieving distilled and other liquids from gases mechanically mixed therewith. (*used in supplying boilers.*)	3351	27th Dec. 1865	Norman Willis Wheeler.
STEAM-ENGINES (*Stationary, Locomotive and Marine*).			
Improvements in the manufacture of elastic packings for pistons, and in lubricating compositions therefor.	19	4th Jan. 1865	Edward Keirby.
Improvements in locomotive engines and in the springs of railway carriages.	35	5th Jan. 1865	James Edwards Wilson.
Locomotive engines - - - - - - (*Communicated by Auguste De Bergue.*)	48	6th Jan. 1865	Charles De Bergue.
Regulating and working the valves of steam and other engines.	82	11th Jan. 1865	John Frederick Spencer.
Steam-engines - - - - - - (*Communicated by Philibert Vabe.*)	111	13th Jan. 1865	William Brookes.
Apparatus for transmitting and converting reciprocating motion into rotary motion, applicable to various useful purposes. (*locomotive engines.*)	145	17th Jan. 1865	William John Cunningham.
Improvements in the packings of pistons and piston rods of pumps and steam and other engines, which improvements are also applicable to hydraulic presses.	155	18th Jan. 1865	William Robert Foster.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - - -	166	19th Jan. 1865	William Cleveland Hicks.
Locomotive and other steam-engines - -	167	19th Jan. 1865	Thomas Charles Durham.
Steam-engines - - - - - -	183	21st Jan. 1865	Thomas Lester.
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES—*continued.*			
Construction of steam-engines - - (*Communicated by Pierre Jean Lacoste.*)	260	30th Jan. 1865	George Davies.
The application of hydro-electricity to steam for the purpose of increasing its expansion and power, and the machinery or apparatus connected therewith, and also the application of galvano or frictional electricity for the same purpose - - - -	273	31st Jan. 1865	Joseph Fletcher. Daniel Hamer.
An improved construction of lubricating apparatus for steam-engine purposes - - -	274	31st Jan. 1865	Ewing Pye Colquhoun. John Pardoe Ferris.
Steam-engines - - - - -	338	7th Feb. 1865	Charles Lungley.
Expansion gear for steam-engines - -	415	14th Feb. 1865	William Fothergill Batho.
Beam engines - - - - -	468	18th Feb. 1865	James Grafton Jones.
Steam-engines - - - -	485	21st Feb. 1865	John Russell Swann.
A new and improved balanced slide valve - - (*Communicated by James Rankin.*)	496	22nd Feb. 1865	William Edward Newton.
Steam-engines applicable to ploughing and other agricultural purposes.	522	24th Feb. 1865	James Howard.
Marine steam-engines - - -	643	8th March 1865	John Dean.
Motive-power engines - - - - (*Communicated by Auguste Gerin.*)	651	8th March 1865	William Clark.
Increasing the mechanical value of steam as a motive agent. (*Communicated by Thomas Ewbank.*)	748	17th March 1865	Benjamin Lawrence.
Improved combinations of direct acting steam-engines with single or double acting pumps, for pumping water, air or gases.	751	17th March 1865	Jacob Goodfellow.
Locomotive engines and carriages for common roads and tramways, and also for agricultural and other purposes.	780	20th March 1865	Alexander Richard Mackenzie.
Double cylinder steam-engines - -	860	27th March 1865	Joshua Rooke.
Traction engines - - - - -	863	27th March 1865	John Bruckshaw. William Scott Underhill.
Improvements in the construction of locomotive engines and railway carriages, for facilitating their passage round curves - - - (*Communicated by George John Horner.*)	916	31st March 1865	George Robert Stephenson. George Henry Phipps.
Improvements in paddle wheels, parts of which are applicable to other purposes. (*to steam-engines.*)	935	3rd April 1865	William Cantrill Gollings.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Leon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
Improvements in steam and atmospheric hammers and presses, which improvements are also applicable to steam-engines.	953	4th April 1865	Joseph Vaughan.
Traction engines - - - - -	962	5th April 1865	John Gay Newton Alleyne.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid.	982	6th April 1865	James Grafton Jones.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES—*continued.*			
An improved application of steam power to locomotion on ordinary roads. (*Communicated by Alfred Taillendeau.*)	1002	8th April 1865	William Edward Gedge.
Improvements in steam-engines relating to valve motions governor and drain pipes - -	1195	29th April 1865	Andrew Wyllie. John McFarlane Gray.
Marine steam-engines - - - -	1212	1st May 1865	Daniel Rankin.
Improvements in steam generators and engines and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Improvements in or applicable to marine condensing steam-engines.	1253	4th May 1865	Thomas Wood.
Steam-engines - - - - - (*Communicated by Ebenezer Danford.*)	1264	6th May 1865	William Edward Newton
Mode of and apparatus for obtaining and applying motive-power - - - - - -	1303	10th May 1865	Stanilas Pokutynski. Michel Mycielski.
Means and apparatus for effecting traction on railways and roads where traction is used - -	1323	12th May 1865	Richard Edward Donovan. Daniel O'Brien.
Locomotive engines - - - -	1358	16th May 1865	Walter Montgomerie.
A new system of rotative machines to be used as steam-engines and water pumps.	1447	26th May 1865	Jean Alphonse Heinrich.
A new or improved machine for obtaining motive-power and other useful purposes.	1468	29th May 1865	Henry Moseley.
Certain improvements in steam hammers, partly applicable to steam-engines.	1491	31st May 1865	Peter Pilkington.
Improvements in machinery or apparatus for actuating the slide-valves of marine engines and in the slide-valves thereof.	1538	5th June 1865	John Robertson.
An improved break applicable to various descriptions of steam-engines and also to railway purposes. (*Communicated by Eugène Dutheil.*)	1542	5th June 1865	Frederick Tolhausen.
An improved metallic stuffing box - -	1555	7th June 1865	Victor Duterne.
Improvements in safety valves, which improvements are also applicable to steam-engine and other valves - - - - - -	1575	9th June 1865	Charles Vernon. William Hodgkins.
Improvements in the permanent way of railways and in locomotives applicable thereto.	1593	12th June 1865	William James Hixon.
Locomotive engines and railway carriages - -	1646	19th June 1865	George Smith the younger.
Improvements in surface condensers for steam-engines and in feeding boilers therefrom.	1669	21st June 1865	Charles Talbot Porter.
Surface condensers - - - - (*Communicated by Alban Crocker Stimers.*)	1677	22nd June 1865	William Edward Newton.
Improvements in steam-boilers, furnaces and engines, and in parts connected therewith.	1745	30th June 1865	Edwin Elliott.
Locomotive engines - - - - (*Communicated by Auguste de Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Steam pumping machines or engines - -	1760	3rd July 1865	Martin Benson.
Improvements in locomotive engines and in springs of railway carriages.	1769	4th July 1865	James Edwards Wilson.
Means and apparatus for increasing the mechanical power of steam.	1820	10th July 1865	William Alexander Lyttle.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES— *continued.*			
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
Obtaining motive-power - - - - (*Communicated by Monsieur Charles Tellier.*)	1832	11th July 1865	Hector Auguste Dufrené.
Steam and water valves - - - -	1834	11th July 1865	Nathaniel Jenkins.
Traction engines - - - - - (*Communicated by Alexander Keene Richards.*)	1836	11th July 1865	Morris Horsey Keene.
Slide valves - - - - - -	1893	20th July 1865	Richard Clark Bristol.
Condensing apparatus for steam-engines - -	1897	20th July 1865	Morgan Lawrence Parry.
Construction of valves for steam and other engines - (*Communicated by Thomas Shrimton Davis.*)	1913	22nd July 1865	William Edward Newton.
Conical plug steam valves - - - - (*Communicated by John Wesley Carhart.*)	1956	28th July 1865	William Edward Newton.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Obtaining motive-power by heat - - -	1992	1st Aug. 1865	Matthew Piers Watt Boulton.
Improvements in and apparatus for treating peat in bogs and obtaining it therefrom, also applicable to tilling and cultivating land - - -	2004	2nd Aug. 1865	Charles Hodgson.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Construction of steam-engines - - -	2062	9th Aug. 1865	Henry Cartwright.
An improved mode of relieving slide-valves of back pressure.	2069	9th Aug. 1865	James William Longstaff.
Apparatus for obtaining and applying motive-power to various useful purposes - - -	2080	11th Aug. 1865	William Thomas Cole. Henry Spink Swift. Augusto Soares.
Steam-engines - - - - - (*Communicated by Giovanni Batista Venzano.*)	2130	18th Aug. 1865	James Stevenson.
Certain improvements in rotatory engines - -	2202	28th Aug. 1865	William Graham. John Broughton. Thomas Corkhill.
Traction engines and other vehicles - -	2234	30th Aug. 1865	Samuel Lawrence James.
Certain improvements in steam-engines and valves - (*Communicated by George Ichabod Washburn.*)	2286	6th Sept. 1865	William Clark.
A new method of and apparatus for condensing the steam of steam-engines.	2376	18th Sept. 1865	Francesco Daina.
Improvements in locomotive engines, parts of which improvements are also applicable to railway carriages.	2379	18th Sept. 1865	Russel Aitken.
Apparatus for lubricating machinery - - (*steam-engines.*) (*Communicated by Joseph Bouillon.*)	2429	23rd Sept. 1865	Henri Adrien Bonneville.
An improved construction of engine which can be used either as a motor or for pumping. (*Communicated by John Benjamin Root and William Benjamin.*)	2453	25th Sept. 1865	William Edward Newton.
Tools for securing tubes in tube plates, and for other purposes where concentrated power or adjustment is necessary. (*for tightening piston packing rings.*)	2455	26th Sept. 1865	Richard Taylor Nelson Howey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEAM-ENGINES—*continued.*			
Steam-engines	2479	27th Sept. 1865	John Rodger Arnoldi.
Compositions used for coating metallic surfaces (*steam cylinders.*)	2480	27th Sept. 1865	John Boffey. Charles William Smith.
Steam-engines (*Communicated by Nicolas Chenet and Pierre Jean Lacoste.*)	2502	29th Sept. 1865	William Edward Gedge.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor.	2563	5th Oct. 1865	Robert William Fraser.
Rotary engines and pumps (*Communicated by Fidèle Chatelain.*)	2567	6th Oct. 1865	Richard Archibald Brooman.
Construction of compound cylinder engines (*Communicated by Matthew Murray Jackson.*)	2587	7th Oct. 1865	John Howard.
Railway carriages and locomotives (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Improvements in and applicable to slide valves, pistons and glands	2700	19th Oct. 1865	Thomas Adams. George John Parson.
Steam-engines	2759	26th Oct. 1865	Edmund Hunt.
Certain improvements in mechanism or apparatus to be employed for lubricating the cylinders of steam-engines, or other similar frictional surfaces	2881	8th Nov. 1865	Neville Beard. John Maiden.
Railway steam-engines and carriages	2928	14th Nov. 1865	Joseph Alphonse Loubat.
A new or improved steam wheel and apparatus connected therewith. (*Communicated by Jean Gabriel Alphonse Appé.*)	3037	27th Nov. 1865	William Edward Gedge.
A new or improved method of preventing the escape of heat from steam cylinders	3051	28th Nov. 1865	William Simons. Andrew Brown.
Improvements in locomotive engines and in the means employed for generating steam therein.	3185	9th Dec. 1865	Robert Francis Fairlie.
Steam-engines	3213	12th Dec. 1865	Joseph Stocker.
An improved construction of rotary engine	3225	13th Dec. 1865	Peter Gardner.
Machinery or apparatus for cultivating land by steam power.	3226	13th Dec. 1865	Pryce William Bowen.
Locomotive engines	3259	16th Dec. 1865	James Atkinson Longridge.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Pistons (*Communicated by David Lister.*)	3279	19th Dec. 1865	John Henry Johnson.
Steam-engines (*Communicated by George Bender Whiting and Thomas Fitch Rowland.*)	3308	22nd Dec. 1865	William Clark.
Duplex steam-engines	3350	27th Dec. 1865	Norman Willis Wheeler.
Steam-engines	3380	30th Dec. 1865	Richard Beck.

See also "GUAGES."
See also "GOVERNORS."

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING OR GUIDING SHIPS, CARRIAGES, PLOUGHS, &c.			
A new or improved hydraulic steering apparatus and rudder break	118	14th Jan. 1865	Alfred Paul. Edwin Paul.
Differential wheel gearing (*for steering.*)	744	17th March 1865	John Standfield.
Traction engines (*apparatus for steering.*)	863	27th March 1865	John Bruckshaw. William Scott Underhill.
Navigable balloons	930	1st April 1865	Paul Haenlein.
A new apparatus or mechanism for flying through the air.	1037	12th April 1865	Gustave Wilhelm Rothleb.
Machinery for cultivating land (*Partly communicated by Max Eyth.*)	1104	20th April 1865	David Greig.
Improvements in the construction of ships of war and floating batteries, part of which improvements are applicable to land fortifications.	1107	20th April 1865	Henry Caudwell.
Improvements in steering ships or vessels, and in the machinery or apparatus connected therewith.	1157	25th April 1865	William Elder.
Apparatus for steering ships, steamboats and other sailing vessels.	1394	20th May 1865	John Martin.
Apparatus for propelling and steering vessels	1481	30th May 1865	Jonathan Jopling.
Improved mechanical arrangements for steering ships and other navigable vessels.	1496	31st May 1865	William Augustus Brown.
Apparatus for steering ships and vessels	1577	9th June 1865	William Horatio Harfield.
Improvements in the permanent way of railways and in locomotives applicable thereto.	1593	12th June 1865	William James Hixon.
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
Traction engines (*Communicated by Alexander Keene Richards.*)	1836	11th July 1865	Morris Horsey Keene.
Rudders for steering ships or vessels	1919	24th July 1865	John McGrigor Croft.
Traction engines and other vehicles (*steering wheels.*)	2234	30th Aug. 1865	Samuel Lawrence James.
Improvements in the propelling and steering of steam ships or other vessels, and in the machinery or apparatus employed therefor.	2563	5th Oct. 1865	Robert William Fraser.
Carriages propelled by manual power (*and guiding carriages.*)	2623	11th Oct. 1865	Thomas Du Boulay.
Steering indicators and tell-tales	2864	7th Nov. 1865	Charles Jullien Viehoff. James Adolphe Matthiessen.
Steering gear for navigable vessels (*Hydraulic gear.*)	2865	7th Nov. 1865	William Esplen. James Clarke.
Means of and apparatus for steering ships and other floating bodies	2938	15th Nov. 1865	Charles Atherton. Amherst Hawker Renton.
An improved construction of steering apparatus	3171	9th Dec. 1865	Samuel Clark.
Steering indicators and tell-tales	3341	26th Dec. 1865	Charles Jullien Viehoff. James Adolphe Matthiessen.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STEERING, &c.—*continued.*			
Rudders - - - - - - - -	3307	29th Dec. 1865	James Robert Napier. William John Macquorn Rankine.
For Ships' Compasses, *see* "COMPASSES."			
STONE AND SLATE, ARTIFICIAL STONE AND MARBLE; GRINDSTONES AND MILLSTONES.			
Improved means or apparatus for facing flags or smoothing the surface of stones - - -	154	18th Jan. 1865	James Coulter. Herbert Harpin.
Improvements in the grinding and feeding apparatus of mills for grinding corn and other substances, and in the combination of such mills with flour dressing machines - - - -	205	24th Jan. 1865	Richard Robert Riches. Charles James Watts.
An improvement in the manufacture of artificial stone for building and other purposes.	441	16th Feb. 1865	William Kirrage.
Improved machinery or apparatus for scouring stones, marbles, slates and bricks - - -	686	11th March 1865	Jonas Hird. Joshua Walker.
Machinery for cutting and dressing stones and other hard substances. (*Communicated by Gustavus Cuppers.*)	1093	19th April 1865	Maurice Vogl.
Manufacture of slabs, bearers and other articles of artificial stone where great strength is required.	1337	13th May 1865	Frederick Ransome.
Apparatus for polishing, smoothing or facing, especially applicable to lithographic stones.	1668	21st June 1865	Charles Henry Gardner.
Manufacture of terra-cotta or vitreous stone - -	2071	10th Aug. 1865	Mark Henry Blanchard.
Saws for sawing and cutting marble and other analogous substances.	2188	25th Aug. 1865	Edward Henry Woodward.
Improved machinery for cutting stone - - - (*Communicated by George Jeffards Wardwell.*)	2363	15th Sept. 1865	Alfred Vincent Newton.
Machinery for grinding, dressing, smoothing or polishing flags and stones, without the use of the ordinary cutting tools - - -	2411	21st Sept. 1865	Benjamin Chaffer. James Thompson. Charles Thompson.
An improved liquid composition for cleansing, scouring and bleaching textile animal, mineral and vegetable substances - - - - (*cleansing stone and marble.*)	2440	23rd Sept. 1865	Gustave Emile Rolland. Emile Léon Rolland.
Constructing and mounting or hanging mill-stones	2692	18th Oct. 1865	William Henry Parker.
Machinery for dressing mill-stones - - - (*Communicated by Eleazer A. Paine.*)	2817	1st Nov. 1865	Alfred Vincent Newton.
Mounting and driving mill-stones - - -	2839	3rd Nov. 1865	Richard Smith, jun^{r}.
Manufacture of bricks and artificial stone and marble.	2867	7th Nov. 1865	David Barker.
An improved mode of ventilating mill-stones - (*Communicated by Alexandre Désiré Lagoguey.*)	2924	13th Nov. 1865	Henry Edward Newton.
An improved system of pavement to supersede the macadamized system used in the main streets of large cities and causeways subject to a great circulation of vehicles. (*factitious flagstones.*)	3035	25th Nov. 1865	Theophilus Berrens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STONE, &c.—*continued.*			
An improved composition for enamel, paint, varnish, cement or plaster. (*for artificial stone or marble.*) (*Communicated by William Barney Watkins.*)	3042	27th Nov. 1865	William Robert Lake.
A new or improved cement or composition, applicable to the agglomeration or moulding of various materials, and to other useful and decorative purposes. (*ashlar slabs.*) (*Communicated by Stanislas Sorel and Emile Justin Menier.*)	3119	5th Dec. 1865	Richard Archibald Brooman.
For Preserving stone, *see* "PRESERVING WOOD." For Breaking Stones, *see* "GRINDING MINERALS."			
STRAPS, DRIVING-BANDS AND BELTS.			
Manufacture of boots, shoes, saddlery, harness and other articles. (*driving straps.*) (*Communicated by Toussaint Landrin.*)	169	19th Jan. 1865	William Clark.
Manufacture of driving bands or belts for machinery and other purposes - - - -	300	3rd Feb. 1865	George Hurn. Daniel Hurn.
Waterproofing skins, hides and leather - - - (*bands for steam-engines.*)	413	14th Feb. 1865	George Harton.
Apparatus used for bending the ends of walking sticks, and the sticks or handles of umbrellas and parasols - - - - - -	682	10th March 1865	Joshua Jones. Richard Daniel Jones.
Fasteners for driving-bands, straps, belts, harness or other such like purposes - - - -	1222	1st May 1865	Joseph Felix Allender. Thomas Frederick Cashin.
Means or apparatus for producing friction or adhesion between pulleys, rollers and the like, and cords, bands, belts or chains passed over or round them.	1927	25th July 1865	Martyn John Roberts.
An improved mode of lacing boots, shoes and other articles united by laces. (*driving belts.*) (*Communicated by Van Wagener.*)	1931	25th July 1865	John Henry Johnson.
Apparatus for elongating and contracting waist and other belts, which apparatus is also applicable for other purposes - - - - - (*driving-bands.*)	2224	29th Aug. 1865	George Frederick White. Harvey Chamberlain.
Tanning or treating hides applicable for machine bands and other purposes.	2591	7th Oct. 1865	William Harris.
Manufacture of bands, belts, or straps for harness, for driving machinery or for other purposes.	2619	11th Oct. 1865	James Crutchett.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*coating straps for machinery.*)	2630	12th Oct. 1865	Auguste Aimé Lerenard.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
STRAPS, &c.—*continued.*			
Fasteners for driving bands, straps, belts, harness or other such like purposes - - -	2803	31st Oct. 1865	Thomas Frederick Cashin. Joseph Felix Allender.
Manufacture of leather driving-belts - - -	3148	7th Dec. 1865	Clarke Duchesne Hitchcock. John Shimmon.
Certain improvements in the method of attaching and securing together the ends of strapping employed in machinery.	3302	21st Dec. 1865	William Barnsley.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for driving-bands.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
SUGAR AND SYRUPS.			
A new system of boiling grain sugar in vacuo -	42	6th Jan. 1865	Jules Lebaudy.
Construction of vacuum pans - - -	57	7th Jan. 1865	Edward Beanes. Conrad William Finzel.
A new process of manufacturing syrup and sugar from maize and other cereal grains. (*Communicated by Frederick William Goessling.*)	221	26th Jan. 1865	George Haseltine.
An improved process of manufacturing syrup and sugar from maize starch and other cereal grain starch. (*Communicated by Frederick William Goessling.*)	246	28th Jan. 1865	George Haseltine.
Filtering apparatuses - - - - (*for saccharine solutions.*)	249	28th Jan. 1865	Victor Burq.
Improvements in the mode of treating for evaporating and concentrating purposes, cane juice and saccharine and other solutions and liquids, and also in machinery or apparatus for the concentration of cane juice and saccharine and other solutions, and for the evaporation of liquids.	418	14th Feb. 1865	Alfred Fryer.
Improvements in refining sugar and in apparatus employed therein. (*Communicated by Alfred Guillon.*)	599	3rd March 1865	Richard Archibald Brooman.
Improved apparatus for expressing liquids from pulpy and semi-fluid substances. (*from beet root for sugar making.*) (*Communicated by Louis Pierre Robert de Massy.*)	955	4th April 1865	William Edward Newton.
Preparation of materials to be used as substitutes for animal charcoal - - - - (*for sugar refining.*)	1409	22nd May 1865	Richard Müller. Arthur Thomas Weld. John Folliott Powell.
Obtaining jellies, syrups, drinks and other products from the tree Arbutus Unedo, known as the Arbutus.	1649	20th June 1865	Philippe Mingaud.
Improvements in the raising, lifting or drawing and forcing of water and other liquids, and in the apparatus and means employed therefor (*for sugar houses.*)	1998	2nd Aug. 1865	James M'Ewan. William Nelson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SUGAR, &c.—*continued.*			
Apparatus for filtering sugar and other liquid solutions - - - - - -	2023	4th Aug. 1865	Jean Adolphe Leon. George Tessimond. John Kissack.
Improvements in supplying charcoal to sugar decolorising vessels, and in apparatus therefor.	2296	7th Sept. 1865	James Dawson.
Improvements in the machinery or apparatus and in the processes for the treatment and manufacture of sugar.	2385	19th Sept. 1865	John Fletcher.
Manufacture of materials for decoloring sugar and other saccharine and liquid matters. (*Communicated by Chrétien Jean Gaade.*)	2409	21st Sept. 1865	William Clark.
Improvements in evaporating and distilling liquids, and in the apparatus employed therein. (*making sugar.*)	2590	7th Oct. 1865	Tomlin Campbell.
Means and apparatus to be employed in the manufacture of sugar. (*Partly communicated by Absalom Hippolyte Leplay.*)	2606	10th Oct. 1865	Jean Adolphe Léon.
Improved means and apparatus for the cleansing or bleaching of sugar, which said means and apparatus are also applicable for other useful purposes of a like character.	2872	7th Nov. 1865	Gustavus Adolphus Jasper.
An improved manufacture of caramel - - (" *burnt sugar.*") (*Communicated by Thaddeus Hyatt.*)	2950	16th Nov. 1865	Alfred Vincent Newton.
Manufacture of materials for decoloring sugar and other saccharine matters. (*Communicated by Chrétien Jean Gaade.*)	3078	30th Nov. 1865	William Clark.
SULPHUR.			
Obtaining certain compounds of nitrogen and of sulphur - - - - - - - (*see* "ACIDS.")	1385	19th May 1865	Thomas Richardson. Martin Diederich Rücker.
Improvements in condensing and utilizing sulphurous smokes and vapours, and in apparatus to be used for that purpose. (*obtaining flowers of sulphur.*)	2216	29th Aug. 1865	Adolf Gurlt.
Apparatus used for calcining and roasting copper and other ores and substances containing sulphur (*see* "ACIDS.")	2350	14th Sept. 1865	Thomas Bell. Thomas Lesslie Gregson Bell.
Treating soda waste to obtain sulphur therefrom -	2443	23rd Sept. 1865	Max Schaffner.
Means of securing the handles of table knives and forks and other similar articles. (*with sulphur.*)	2671	16th Oct. 1865	Thomas McGrah.
Improvements in the manufacture of sulphur by the reduction of the sulphurous acid accruing from the roasting of sulphuretted ores, and in apparatus for the same.	2993	21st Nov. 1865	Alexandre Calley St. Paul de Sincay.
Treating the oxide of iron residues of gas purifying, in order principally to extract sulphur therefrom.	3099	2nd Dec. 1865	Thomas Bell.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SULPHUR—*continued.*			
Treatment of sulphurous and arsenical pyrites containing copper and tin.	3256	16th Dec. 1865	Charles Pengilly.
Improvements in smelting copper and in obtaining products from the gases and vapours given off during the said smelting. (*collecting sulphur.*)	3267	18th Dec. 1865	Henry Causer Ensell.
SURGERY, SURGICAL INSTRUMENTS, SPLINTS, AND BANDAGES, TRUSSES FOR HERNIA; ARTIFICIAL LIMBS, INVALID FURNITURE.			
An improved portable pneumatic apparatus applicable in surgery and medicine for all purposes as a douche, for affusion, irrigation, injection, and for enemas.	16	3rd Jan. 1865	Thomas John Ashton.
Certain improvements in the manufacture of lint -	73	10th Jan. 1865	Samuel Shaw Brown.
Portable invalid or bed-tables - - -	525	24th Feb. 1865	Charles James Rowe.
Construction of a portable vehicle for teaching children to walk and giving assistance to invalids.	537	25th Feb. 1865	John Askew.
An improved instrument for concentrating light, applicable to dental, surgical and other operations.	591	2nd March 1865	Charles Rahn.
An improved abdominal and scrotal bandage -	1016	10th April 1865	Allan Stewart.
A new or improved table and support for invalids -	1069	15th April 1865	Thomas Edward Harding.
Invalid carriages - - - - - (*Communicated by Auguste Quitzow.*)	1120	21st April 1865	Henry Edward Newton.
An improved pessary - - - - (*Communicated by Louis Auguste Rigaux.*)	1141	24th April 1865	William Edward Gedge.
Artificial arms and hands - - - - (*Communicated by Thomas Uren.*)	1185	27th April 1865	William Edward Newton.
An improved cased splint for fractures - -	1597	13th June 1865	Charles Alfred Hemingway.
A new or improved instrument to be employed in examining and facilitating operations in the throat. (*Communicated by Philippe Othon de Clermont.*)	1921	24th July 1865	Richard Archibald Brooman.
Apparatus for elongating and contracting waist and other belts, which apparatus is also applicable for other purposes - - - - (*surgical bandages.*)	2224	29th Aug. 1865	George Frederick White. Harvey Chamberlain.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles. (*surgical instruments.*)	2613	10th Oct. 1865	Arthur Nicholls.
Artificial eyes - - - - - -	2813	1st Nov. 1865	Auguste Boissonneau.
An improved splint for surgical purposes - -	2871	7th Nov. 1865	Henry Hides.
Apparatus for facilitating the walking of invalids -	2873	7th Nov. 1865	Francis Graham Bennett, M.R.C.S.
A new or improved elastic belt or band truss -	3017	24th Nov. 1865	Charles Reader.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
SURGERY, &c.—*continued.*			
Improvements in the manufacture or production of stays, corsets and bodices and other similar articles of dress, and in the fastenings for same. (*applicable to knee caps.*)	3072	30th Nov. 1865	Stephen Dixon.
Construction of artificial arms - - - - (*Communicated by Thomas Uren.*)	3114	4th Dec. 1865	William Edward Newton.
An improved truss - - - - -	3202	12th Dec. 1865	Christopher Easby.
TAR AND RESIN.			
An improved method of treating apatite and other mineral phosphates. (*obtaining phosphorus.*) (*Communicated by Mr. John Oliver.*)	3	2nd Jan. 1865	Montague Richard Leverson.
Treating the pitch obtained in or resulting from the distillation of palm oil and other fats, in candle making.	9	2nd Jan. 1865	Robert Irvine.
Extracting turpentine and tar from resinous wood -	403	13th Feb. 1865	Jean Antoine Pastorelly.
A new or improved method of dissolving pitch - (*Communicated by François Celestin Armelin.*)	1770	4th July 1865	Richard Archibald Brooman.
An improvement in the treatment of tar and other substances suitable to be used in the manufacture of paint and for other purposes.	2191	25th Aug. 1865	John Moule.
Obtaining spirits of turpentine, rosin, pitch, tar, pyroligneous acid and other products, from wood. (*Communicated by Albert Hamilton Emery.*)	2247	31st Aug. 1865	William Edward Newton.
TELEGRAPHS (*Electric*); TELEGRAPHIC PRINTING APPARATUS.			
Electro-magnets and their application to telegraphic and other purposes. (*Communicated by Charles Frédéric Carlier.*)	22	4th Jan. 1865	William Clark.
Apparatus used in train signalling on railways -	52	6th Jan. 1865	Edward Tyer.
Coverings of telegraphic conductors and cables -	98	12th Jan. 1865	John Fuller.
An improved system and apparatus for facilitating the working of submarine cables and other conductors of electricity.	156	19th Jan. 1865	Silvanus Frederick Van Choate.
Improvements in rail and tramways, in laying electric telegraph wires, and in compositions for insulating the same. (*Communicated by Jean Arnaud Emile Laloubère.*)	269	31st Jan. 1865	Richard Archibald Brooman.
A new or improved insulating material for telegraphic and other purposes, together with an improvement in protecting telegraph wires, especially applicable to submarine and subterranean telegraphs. (*Communicated by Jules Erckmann.*)	362	9th Feb. 1865	William Alfred Marshall.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
Improved apparatus for the protection of houses and property from burglars, parts of the invention being applicable for other purposes.	619	6th March 1865	Cromwell Fleetwood Varley
Electric telegraphs - - - - - (*Communicated by Gaetano Bonelli.*)	678	10th March 1865	Harry Whiteside Cook.
Apparatus for protecting telegraphic instruments from injury from atmospheric or static electricity.	713	14th March 1865	Auguste Bertsch.
Posts or supports for telegraph wires, also applicable to posts or supports employed for other purposes - - - - - -	749	17th March 1865	George Dibley. Frederick Braby.
An improved socket for fencing and telegraph posts	775	20th March 1865	Arthur Girand Browning
Machinery or apparatus for paying-out and for raising electric telegraph cables in deep waters.	825	23rd March 1865	Robert Tidman.
Telegraphic apparatus - - - - - (*Communicated by Albert Auguste Daussin de Nalinne.*)	910	31st March 1865	Henri Adrien Bonneville.
Improvements in certain electric telegraphs, part of which invention is applicable to other purposes.	960	5th April 1865	Adam Millar.
Improvements in the construction of submarine telegraph cables, and in the mode of submerging or laying them in the water. (*Communicated by Jean Lucien Arman.*)	1031	11th April 1865	William Edward Newton.
Improvements in and apparatus for communicating intelligence by means of electricity - -	1068	19th April 1865	Ralph Augustine Jones. Joseph Hedges.
Means and apparatus for regulating the power and velocity of machinery or apparatus in motion. (*applicable to telegraphic apparatus.*)	1230	2nd May 1865	Charles William Siemens
Manufacture of parkesine or compounds of pyroxyline, and also solutions of pyroxyline known as collodion. (*for coating telegraph wire.*)	1313	11th May 1865	Alexander Parkes.
Insulation of electric telegraph wires - -	1376	18th May 1865	Samuel Alfred Varley.
Telegraph supports, parts of the invention being applicable to other purposes - - -	1390	20th May 1865	Cornelius Varley. Samuel Alfred Varley.
Improvements in reproducing or producing copies of writings, drawings, music and other characters, and in preparing originals to be transmitted by electric telegraph. (*Communicated by Jacques Paul Lambrigot.*)	1457	27th May 1865	Richard Archibald Brooman.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
An improved method of submerging telegraphic cables.	1544	5th June 1865	James Kennedy.
Method of and apparatus for effecting and recording telegraphic communications. (*Communicated by Sarah Martha Buckwell.*)	1628	16th June 1865	Michael Henry.
Electric telegraph instruments and relays - -	1654	20th June 1865	Isham Baggs.
Improvements in submarine telegraphy, which improvements are also applicable in some cases to land telegraphy.	1753	3rd July 1865	Isham Baggs.
Electric telegraphs - - - - - -	1784	6th July 1865	William Thomson. Cromwell Fleetwood Varley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
Compounds for waterproofing and insulating purposes. (*protecting telegraph wires.*)	1962	29th July 1865	Frederick Augustus Abel.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mulholland.
Electric telegraphic apparatus - - - (*Communicated by Louis Brequet.*)	2047	7th Aug. 1865	Louis John Crossley.
Construction of submarine telegraph cables -	2088	11th Aug. 1865	Henry Robert Guy.
Apparatus for raising and recovering submerged telegraph cables.	2134	18th Aug. 1865	Josiah Latimer Clark.
Constructing constant galvanic batteries for giving a signal or alarm in case of fire, and any other telegraphic purposes - - - -	2144	19th Aug. 1865	John Samuel Watson. Albert Horwood. Charles Brumfit.
Machinery to be used in the manufacture of telegraph cables.	2155	21st Aug. 1865	Fleeming Jenkin.
Improvements in the construction of electric telegraph cables and in the preparation of telegraph wires.	2161	22nd Aug. 1865	Charles Marsden.
Floating lights, beacons, floating batteries and other vessels. (*for supporting telegraph cables.*)	2173	24th Aug. 1865	John Moody.
Submarine electric telegraph cables - -	2209	28th Aug. 1865	Stopford Thomas Jones.
Improvements in electric telegraph cables, and in transmitting signals therethrough.	2213	28th Aug. 1865	William Peter Piggott.
Electrical telegraphy - - - - -	2217	29th Aug. 1865	Richard Laming.
Improvements in the manufacture of rope, cordage, yarn, wire rope, and other such like twisted and plaited fabrics, and in the machinery employed therein - - - - - - - (*covering telegraph cables.*)	2225	30th Aug. 1865	Thomas Cope. William Guest.
Improvements in laying and maintaining submarine telegraph cables, and in apparatus connected therewith. (*Communicated by Amédée Mathurin Gabriel Sebillot.*)	2257	1st Sept. 1865	William Clark.
An improved method of laying or submerging ocean telegraph cables.	2261	2nd Sept. 1865	Joseph Sproul.
Improved means or apparatus to be used in laying telegraph cables in the sea or other deep waters.	2262	2nd Sept. 1865	Kirwan Joyce Perceval.
Improvements in covering submarine telegraph cables, and in the machinery and means employed for paying out or hauling in the same.	2326	11th Sept. 1865	Samuel Inkpen.
Improvements in constructing and insulating telegraphic conductors, and in apparatus connected therewith.	2332	12th Sept. 1865	John Macintosh.
Construction of submarine telegraph cables -	2341	13th Sept. 1865	John Oliver Chapman Phillips.
Magnetic telegraphs - - - - (*Communicated by Robert Kirk Boyle and Guiseppe Tagliabue.*)	2356	14th Sept. 1865	William Clark.
Manufacturing wire conductors for electro-telegraphic purposes.	2416	22nd Sept. 1865	William Boggett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
An improved indicator for electric bells and a new new battery manipulator combined, for ringing electric bells and other signals.	2421	22nd Sept. 1865	Walker Moseley.
Certain improvements in telegraphic cables - -	2509	30th Sept. 1865	James Austin Mee.
Construction of submarine telegraph cables - - (*Communicated by Claude Ernest Lami de Nozan.*)	2530	3rd Oct. 1865	Henri Adrien Bonneville.
Apparatus for laying telegraphic cables in deep waters.	2570	6th Oct. 1865	Frederick William Gardiner.
Certain improvements in telegraphic communication for the purpose of indicating danger.	2584	7th Oct. 1865	Charles Hanson Mellor.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith.	2605	10th Oct. 1865	François Thierry Hubert.
Submarine telegraphy - - - - -	2612	10th Oct. 1865	John Fletcher Wiles.
The improvement of the means of and apparatus for laying submarine electrical telegraphic wires, lines, cables or other contrivances of a like sort.	2670	16th Oct. 1865	Reinhold Edward Kaulbach.
An improved method of laying submarine telegraphic cables or wires.	2705	20th Oct. 1865	Empson Edward Middleton.
Electric telegraph conductors - - - -	2733	21st Oct. 1865	Alexander Parkes.
Improvements in the construction and working of electric telegraphs and in apparatus connected therewith, partly applicable to other purposes.	2762	26th Oct. 1865	Henry Wilde.
Testing and working submarine electric telegraph wires.	2765	26th Oct. 1865	Willoughby Smith.
An improvement in electric telegraphy - -	2914	13th Nov. 1865	Walker Moseley.
Improvements in submarine electric telegraph cables and in machinery employed in the manufacture and submergence thereof - - - -	2941	15th Nov. 1865	Arthur Wells. Walter Hall.
Improvements in the construction of and in the method of laying submarine electric cables.	2948	16th Nov. 1865	John De La Haye.
Telegraph inking and marking instruments -	3008	23rd Nov. 1865	Charles Henry Chadburn.
Certain improvements in insulators for electrical purposes - - - - - - -	3121	5th Dec. 1865	John Prest. Henry Harrison. Bernhard Roeber.
Improvements in the applications of electricity for the testing and discharge of torpedo mines, either on land or at sea, and in the apparatus connected therewith. (*and speaking through the mines.*) (*Partly communicated by Matthew Fontaine Maury.*)	3154	8th Dec. 1865	Nathaniel John Holmes.
Construction of wire conductors for electro-telegraphic purposes.	3180	9th Dec. 1865	William Boggett.
Manufacturing and laying down submarine telegraphic cables.	3192	11th Dec. 1865	Theophilus Berrens.
Construction of wire conductors for electro-telegraphic purposes.	3299	21st Dec. 1865	William Boggett.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for telegraphic uses.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Machinery for paying out and hauling in or picking up, particularly applicable to paying out and hauling in telegraph cables.	3346	27th Dec. 1865	Samuel Griffith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TELEGRAPHS, &c.—*continued.*			
Manufacture of electric conductors insulated with india-rubber.	3347	27th Dec. 1865	Hugh Adams Silver.
Improvements in the construction of general electric typo-omnitelegraphic machines, and in the mode of working them.	3354	28th Dec. 1865	François Thierry Hubert.
Construction of telegraphic cables or conductors -	3357	28th Dec. 1865	Cromwell Fleetwood Varley.
TESTING THE STRENGTH AND QUALITY OF MATERIALS.			
A new or improved apparatus and means for ascertaining the quality and condition of grain and seed. (*Communicated by Christian Joseph Schmitz.*)	632	7th March 1865	William Bünger.
A new apparatus for ascertaining the degree of torsion and resistance in the threads of textile substances. (*Communicated by Monsieur Bienaimé Felix Brunet.*)	1235	3rd May 1865	Peter Armand Le Comte de Fontaine Moreau.
Machines for testing the strength of chains and cables and for other like purposes.	1347	15th May 1865	James Tangye.
An improved method of testing railway and other springs - - - - - - -	1374	18th May 1865	Joseph Mitchell. George Tilfourd.
Improved means of testing alloys of gold - -	1994	2nd Aug. 1865	Henry Levy.
Apparatus or means for ascertaining the quality and condition of grain and seed. (*Communicated by Christian Joseph Schmitz.*)	2098	14th Aug. 1865	William Bünger.
Apparatus for ascertaining specific gravities and the bulk of solids, and also for other similar uses.	2490	28th Sept. 1865	Alfred Mosley Bennett.
Improvements in the construction of billiard tables and improved apparatus for ascertaining the degree of elasticity of the cushions and the strength of the cloth. (*Communicated by Eugene Ponsson, jun'.*)	2608	10th Oct. 1865	William Edward Gedge.
An improved apparatus for ascertaining the degree of torsion and resistance in the threads of textile substances.	2828	2nd Nov. 1865	Bienaimé Felix Brunet.
THERMOMETERS, BAROMETERS, HYDROMETERS, LIQUOMETERS, SACCHAROMETERS, ELECTROMETERS; TESTING THE STRENGTH OF FLUIDS; WIND REGISTERS.			
Hydrometers - - - - - -	75	10th Jan. 1865	Edward Wilds Ladd. Ludwig Oertling.

Subject matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THERMOMETERS, &c. — *continued.*			
An improved apparatus or liquometer for ascertaining and indicating the strength of liquids. (*Communicated by Claude Alphonse Valson.*)	122	14th Jan. 1865	Richard Archibald Brooman.
Improved apparatus for measuring the specific gravity of liquids. (*hydrometer and saccharometer.*) (*Communicated by Edward Payne.*)	448	16th Feb. 1865	John Fulleck Hearsey.
Improvements in ascertaining the presence of "fixing" agents in photographic productions, in removing the said fixing agents therefrom, and in apparatus connected therewith. (*Communicated by Wilhelm Reissig.*)	677	10th March 1865	Theodor Reissig.
Improvements in self-acting alarms for indicating excess of heat or cold, parts of which improvements are applicable to the transmission of messages. (*Communicated by Charles Dion.*)	1223	2nd May 1865	John Henry Johnson.
Hydrometers for ascertaining the strength of spirits and the specific gravity of fluids. (*Communicated by Claude Alphonse Valson.*)	1349	15th May 1865	Henri Adrien Bonneville.
Apparatus for indicating the pressure of steam or liquids in gauges, and for signalling.	1497	31st May 1865	Frederic Newton Gisborne.
An improved method of submerging telegraphic cables. (*or testing during submersion.*)	1544	5th June 1865	James Kennedy.
An improvement in apparatus for indicating the hygrometric condition of the atmosphere.	1610	14th June 1865	William Edson.
Electric telegraph instruments and relays - - (*electrometers.*)	1654	20th June 1865	Isham Baggs.
A new instrument or anemograph for delineating and registering the direction and force of the winds.	1839	12th July 1865	Samuel Burt Howlett.
An improved instrument for indicating atmospheric changes.	1891	20th July 1865	Henry Augustus Clum.
Apparatus for regulating the passage or flow of steam, water and other fluids.	2043	7th Aug. 1865	Adrienne Anastasie Foubert.
Aneroid barometers - - - -	2714	20th Oct. 1865	Thomas Cooke.
Testing and working submarine electric telegraph wires.	2765	26th Oct. 1865	Willoughby Smith.
Apparatus for indicating and registering high temperatures.	2780	28th Oct. 1865	Frederick Herbert Gossage.
Improvements in the applications of electricity for the testing and discharge of torpedo mines, either on land or at sea, and in the apparatus connected therewith. (*Partly communicated by Matthew Fontaine Maury.*)	3154	8th Dec. 1865	Nathaniel John Holmes.
Construction of barometers - - - (*Communicated by Antoine Michel Fabre.*)	3167	9th Dec. 1865	Henri Adrien Bonneville.
Apparatus for regulating heat obtained by the combustion of gas. (*by expansion and contraction of mercury.*)	3268	18th Dec. 1865	Henry Planck.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THRASHING, WINNOWING, HULLING, DECORTICATING, DRESSING, CLEANING, DRYING, STORING AND PRESERVING CORN, GRAIN, SEEDS AND RICE.			
Apparatus for hulling grain and for reducing granular substances.	38	5th Jan. 1865	Gustav Adolph Buchholz.
Machinery or apparatus for cleaning rice, coffee and other grains or seeds having an outer hull or inner pellicle. (*Communicated by Nathaniel Greene and Walter Clement Key.*)	64	9th Jan. 1865	John Henry Johnson.
Machinery or apparatus for cleaning and decorticating grain.	115	13th Jan. 1865	Wilson Ager.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes.	174	20th Jan. 1865	Louis Balma.
Machinery for thrashing, beating and dressing flax	231	26th Jan. 1865	William Creasy.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*driving winnowing machines.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
An improved apparatus for separating grain (*Communicated by Henry Francis Hart.*)	348	7th Feb. 1865	William Edward Newton.
Improvements in the means of decorticating grain and other seeds, and in apparatus for the same. (*Communicated by Gustave Lataste, Christophe Ours Bullot and Clément Montville.*)	561	23th Feb. 1865	William Clark.
A new or improved apparatus and means for ascertaining the quality and condition of grain and seed. (*Communicated by Christian Joseph Schmitz.*)	632	7th March 1865	William Bünger.
Machinery or apparatus for thrashing grain or seed. (*Communicated by Isidor Pintus.*)	735	16th March 1865	Moritz Meisel.
Combined apparatus for threshing, dressing and grinding grain and other agricultural produce.	742	16th March 1865	James Marshall.
A new or improved machine for peeling or skinning almonds.	760	18th March 1865	James Henry Wathew.
Machinery for thrashing and rubbing barley and other grain.	793	21st March 1865	Bernard James Webber.
Treatment of rice (*Communicated by Robert Pfeifer.*)	842	24th March 1865	John Henry Johnson.
Rolling or forging steel or wrought iron in bars, to be used as beaters or beating bars upon the drum concaves or breast plates of concaves in thrashing machines.	925	1st April 1865	William Gray.
Improved apparatus for reducing wheat and other straw.	985	6th April 1865	Richard Garrett, jun^{r}.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THRASHING, &c.—*continued.*			
Apparatus for screening, sifting or riddling corn, grain and seed.	1105	20th April 1865	William Beaven.
An improved fan or exhaust for thrashing-machines (*Communicated by Hyppolyte Hatté and Auguste Hatté.*)	1241	3rd May 1865	William Edward Gedge.
An improved apparatus for shelling peas and beans, stoning fruit and other similar purposes.	1244	4th May 1865	Edward Grainger Smith.
Improvements in drying malt and grain, and in the machinery or apparatus connected therewith.	1297	10th May 1865	John Forbes.
An improved apparatus for sifting flour and other substances. (*Communicated by Howard Tilden.*)	1588	8th June 1865	George Haseltine.
Corn screens - - - - - -	1625	15th June 1865	John Hartley.
Machinery for cleaning and decorticating rice and other grains and seeds.	1777	5th July 1865	Joseph Wace Gray.
Improvements in drying grass, hay and other substances, and in the machinery for effecting the same - - - - - - (*corn, &c.*)	1963	29th July 1865	Baldwin Latham. Robert Campbell.
Applying and utilising water power - - (*driving thrashing machines.*)	1967	29th July 1865	Valentine Baker.
Apparatus or means for ascertaining the quality and condition of grain and seed. (*Communicated by Christian Joseph Schmitz.*)	2098	14th Aug. 1865	William Bünger.
An improved mode of and apparatus for drying timber, grain and other marketable products. (*Communicated by Henry Bulkley.*)	2127	17th Aug. 1865	Alfred Vincent Newton.
Machinery for treating cotton seeds in order to remove the cotton therefrom, and to prepare the seeds for crushing.	2196	26th Aug. 1865	François Antoine Edmond Guironnet de Massas
Machinery or apparatus for hulling and winnowing grain. (*Communicated by Friedrich Henckel, and Wilhelm Seck.*)	2300	7th Sept. 1865	William Lloyd Wise.
Improvements in grinding wheat and other grain, and in apparatus for drying and improving the condition of damp wheat or other grain.	2485	28th Sept. 1865	Benjamin Wren.
Cleaning cotton seeds - - - - (*Communicated by Etienne Laporte.*)	2554	5th Oct. 1865	John Charles Stovin.
Construction of skips for raising ballast, corn, coal, minerals and other matters in bulk.	2663	16th Oct. 1865	Charles Henry Murray
A new thrashing machine worked directly on the thrashing floor by oxen or horses.	2888	9th Nov. 1865	Theophilus Berrens.
An improved machine for taking off the fibre from cotton seed and cleaning it.	2953	17th Nov. 1865	William Henry Cope.
Manufacture of beaters for thrashing machines -	2992	21st Nov. 1865	William Gray. Edward Gray. John Gray.
An improved machine for dressing, sifting, cleaning and polishing fruit, coffee, grain and other matter, parts of which are applicable to coffee sifting, roasting, cooling and cleaning, and other purposes.	3133	6th Dec. 1865	Edwin Whele.
An improvement in apparatus for elevating hay, grain or similar materials, and discharging the same from the said apparatus.	3198	11th Dec. 1865	Edward Livingston Wise

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
THRASHING, &c.—*continued.*			
Apparatus for screening grain, seed, rice, tea and other materials.	3239	14th Dec. 1865	Henry William Miller.
Machinery for drying and bleaching grain and other materials.	3276	19th Dec. 1865	William Creasy.
An improved method of and apparatus for preserving, purifying, mixing, separating, cooling, aërating, roasting and otherwise treating grain, ores and various other matters.	3344	27th Dec. 1865	Gaston Charles Ange Marquis D'Auxy.
THREADS AND YARNS.			
The manufacture of a new thread for weaving and other uses. (*Communicated by Veran Sabran and Gaston Jessé.*)	212	25th Jan. 1865	Richard Archibald Brooman.
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads. (*finishing threads.*)	718	14th March 1865	Longin Gantert.
Manufacture of yarn so as to render same applicable as a substitute for woollen yarn, for manufacturing into shawls and other textile fabrics.	774	20th March 1865	Isidor Philippsthal.
A new or improved method of conditioning or preparing fibres, threads and fabrics, and apparatus to be employed therein. (*Communicated by Stanilas Vigoureux.*)	1169	26th April 1865	Richard Archibald Brooman.
A new apparatus for ascertaining the degree of torsion and resistance in the threads of textile substances. (*Communicated by Monsieur Bienaimé Felix Brunet.*)	1235	3rd May 1865	Peter Armand Le Comte de Fontaine Moreau.
Processes and machinery for producing fibres suitable for being spun, from rags or remnants of woven or other textile fabrics made of silk, wool, cotton or other fibrous materials.	1881	19th July 1865	Henry Ernest Gilles.
Machinery for the manufacture of linen or other yarns or threads. (*See* "SPINNING.")	1985	1st Aug. 1865	Thomas Bell Paton.
An improved method of twisting threads - - (*See* "WEAVING.") (*Communicated by Désiré Sival and Léon Sival.*)	2147	19th Aug. 1865	Richard Archibald Brooman.
Improvements in the manufacture of rope, cordage, yarn, wire rope, and other such like twisted and plaited fabrics, and in the machinery employed therein - - - - - - -	2225	30th Aug. 1865	Thomas Cope. William Guest.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TOBACCO AND SNUFF; CIGARS, CIGAR-HOLDERS, PIPE AND CIGAR LIGHTERS; SMOKING PIPES; TOBACCO POUCHES.			
Machinery for the manufacture of "cavendish," "negrohead" and other tobacco.	68	9th Jan. 1865	William Davies.
Machinery for pressing and cutting tobacco (*Communicated by William Woodman Huse.*)	123	14th Jan. 1865	Alfred Vincent Newton.
A chemical combustible substance and apparatus to which it is applicable. (*as a cigar light.*) (*Communicated by François Stoker.*)	477	20th Feb. 1865	William Edward Gedge.
An improvement in cigars	595	2nd March 1865	Charles Lewis Roberts.
An improvement in putting up tobacco for smoking, and in the implements or pipes for smoking the same, and in making tobacco paper. (*Communicated by Luther Holman Hale.*)	615	4th March 1865	William Edward Newton.
An improved top or mouth piece for cigars or cheroots	770	20th March 1865	Thomas Oliver. Joseph William Musto.
Spittoons (*Communicated by Emile Gabriel Aubry and Claude Joseph Barral.*)	852	25th March 1865	John Henry Johnson.
An improved cigar cutter	1139	24th April 1865	Henry Charles Butcher.
Clay tobacco pipes	1683	23rd June 1865	Lesley White.
Utilizing the stalks, smalls and waste of tobacco for certain purposes	1844	13th July 1865	George Clayton Collyer. Charles Lewis Roberts.
An improved pouch or receptacle for holding tobacco and other similar purposes.	1871	18th July 1865	William Antil Richards.
Machinery for manufacturing cigars (*Communicated by John Prentice.*)	2032	4th Aug. 1865	Alfred Vincent Newton.
Machinery for making cigarettes	2160	22nd Aug. 1865	Manuel José Lopez Y Muñoz.
Pipes used for smoking	2325	11th Sept. 1865	Charles Ambrose McEvoy.
Apparatus for cutting tobacco	2359	15th Sept. 1865	Edward Thornton Read.
Smoking-pipes and cigar holders, and an improved tobacco cartridge to be used with the same. (*Communicated by Elijah Miers.*)	2362	15th Sept. 1865	Saul Myers.
An improvement in clasps or fastenings (*for cigar cases.*)	2525	2nd Oct. 1865	Frederic Jenner.
Machinery or apparatus for the manufacture of wooden spills.	2577	6th Oct. 1865	Thomas Machin.
An improved apparatus for igniting cigars or tobacco.	2868	7th Nov. 1865	Hyde Bateman.
An improved tray or holder for cigars or pipes and the ashes therefrom. (*Communicated by Louis Gilles Gallien.*)	3102	2nd Dec. 1865	Richard Archibald Brooman.
A new method of preparing plants of the eucalyptus family and myrtacean plants, and the application thereof to the purposes of tobacco and snuff. (*Communicated by Prosper Vincent Ramel.*)	3174	9th Dec. 1865	Richard Archibald Brooman.
An improved mode of igniting cigars, cigarettes and other similar articles.	3360	28th Dec. 1865	Charles Laurieston Willyams Kneller.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
Toys.			
Manfacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Rotatory aërial swings - - - -	1073	17th April 1865	James John Matthewson. Heinrich Louis Rudolph Schlee.
A new or improved compound spherical rest for ornamental turning lathes. (*forming cups and balls.*)	1441	25th May 1865	Thomas Hallam Hoblyn.
An improved combination of materials, for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes - - (*dolls and toys.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
An improved method of forming india-rubber, gutta-percha or such like balls.	1993	2nd Aug. 1865	Alfred Ford.
A toy or game called flying fish - - -	2145	19th Aug. 1865	George Whitford.
Improvements in the construction of flying toys, also applicable to other purposes. (*Communicated by Charles Edmond François Couturier.*)	2208	28th Aug. 1865	Henri Adrien Bonneville.
A new mechanical propelling screw toy - -	2572	6th Oct. 1865	Louis Alexandre Isidore Daumesnil.
Manufacture of chemical toys known as Pharaoh's serpents.	2694	18th Oct. 1865	Thomas King.
An improved pyrotechnic toy - - -	3195	11th Dec. 1865	Thomas King.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for toys.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Turning; Lathes for Turning.			
Apparatus for transmitting and converting reciprocating motion into rotary motion, applicable to various useful purposes. (*actuating lathes.*)	145	17th Jan. 1865	William John Cunningham.
Action and arrangement of drilling machines, turning lathes, and other machine tools in which a variable speed is required.	241	27th Jan. 1865	John Combe
Improved machinery for shaping hat and bonnet blocks.	258	28th Jan. 1865	William Hiram Higgins.
An improved machine for rounding and polishing shot, shell and other balls or spheres. (*Communicated by William Davis Winsor.*)	952	4th April 1865	William Clark.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
TURNING, &c.—*continued.*			
Improved apparatus for cutting, turning and smoothing metal pipes, and the surfaces of bolts, rods or spindles	1311	11th May 1865	George Mountford. Edward Worrall.
Certain improvements in apparatus for cutting or forming screws, which is also applicable for cutting pipes or tubes.	1411	23rd May 1865	Edward M'Nally.
A new or improved compound spherical rest for ornamental turning lathes.	1441	25th May 1865	Thomas Hallam Hoblyn.
Machinery for turning and finishing bodies of a spherical form. (*Communicated by Robert Carsley.*)	1459	27th May 1865	Thomas Bourne.
Machinery or tools for cutting metals or other materials.	1571	9th June 1865	William Wilson Hulse.
Certain improvements in machinery or apparatus for turning and cutting wood and other substances, to be employed in the manufacture of spools or bobbins or other similar articles.	1773	5th July 1865	John Braithwaite.
Improved self-centering and tightening chucks for drilling-machines, lathes, and other machines in which chucks are used. (*Communicated by John Edwin Earle.*)	2491	28th Sept. 1865	Edward Thomas Hughes.
Chucks for turning lathes	2680	17th Oct. 1865	Robert Burley.
Apparatus for producing accelerated motion for driving purposes (*for lathes.*)	2779	28th Oct. 1865	John Hawthorn Kitson. John Kirby.
Lathe chucks (*Partly communicated by Charles Churchill.*)	2782	28th Oct. 1865	James Buckingham.
Means of connecting drums or pulleys with their shafts or drivers. (*for engine lathes.*) (*Communicated by Leverett Homer Olmsted.*)	2933	14th Nov. 1865	William Clark.
Improvements in the manufacture of axles for carriages and spindles for various purposes, and in machinery to be employed in the said manufacture, part of which improvements in machinery may also be applied to other purposes (*axles and spindles for lathes.*)	3336	26th Dec. 1865	Elias Lones. Joseph Constant Lones. John Lones. John Brettell. Thomas Brettell. Charles Vernon.
Machinery for boring, turning and shaping articles of metal	3362	29th Dec. 1865	William Harrison. Thomas Walker.
UMBRELLAS, PARASOLS, UMBRELLA FURNITURE; WALKING-STICKS.			
Umbrellas and other like articles	114	13th Jan. 1865	John Weeks.
Apparatus used for bending the ends of walking sticks, and the sticks or handles of umbrellas and parasols	682	10th March 1865	Joshua Jones. Richard Daniel Jones.
Umbrella and parasol tip fasteners	833	24th March 1865	Robert Lublinski.
Fixed bands or rib holders for umbrellas and parasols, and which said band is also applicable as an ornamental appendage to walking-sticks and other purposes.	918	31st March 1865	Thomas Kemp Mace.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
UMBRELLAS, &c.—*continued.*			
Metal ribs for umbrellas and parasols	1302	10th May 1865	Robert Hadfield. Jabez Shipman.
Umbrellas, parasols and sunshades	1529	5th June 1865	John Stephenson.
Umbrellas and parasols	1673	22nd June 1865	Nicholas de Becker.
New or improved compositions in imitation of ivory and woods, to be employed in the manufacture of umbrella tips, umbrella and walking stick handles, and other useful and ornamental purposes	1682	23rd June 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Improvements in the manufacture of umbrellas and parasols, and in apparatus employed therein.	2348	13th Sept. 1865	Samuel Fox.
Sun-shades or canopies for perambulators and other wheeled carriages.	2389	19th Sept. 1865	Henry Lloyd.
Adaptation of elastic material to articles requiring a bellows arrangement, or a partially rigid and partially expandible arrangement. (*for umbrellas.*)	2423	22nd Sept. 1865	Matthew Cartwright.
A mode or modes of inserting glass or other transparent plates in the fabric of umbrellas or in other pliant fabrics. (*Communicated by Erasmus Allington Pond, Mark Staples Richardson and Edmund Alonzo Morse.*)	2880	8th Nov. 1865	John Henry Johnson.
An improved stretcher for umbrellas and parasols	3097	2nd Dec. 1865	Richard Cook.
New or improved compositions in imitation of ivory and wood, to be employed in the manufacture of umbrella tips, umbrella and walking-stick handles, and other useful and ornamental purposes	3310	22nd Dec. 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for parasol sticks.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton
Obtaining and employing continuous lengths of tanned leather for various useful purposes (*for umbrellas, sun shades, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
UPHOLSTERY (*Mattresses, Beds, Cushions, Curtains, Curtain and Stair Rods, Cornice Poles*); **RUGS, MATS AND MATTING.**			
The application and use of certain materials to be employed in the manufacture of carpets and hearth rugs	7	2nd Jan. 1865	John Spencer. Noah Broomhead.
Construction of spring mattresses and paliasses	24	4th Jan. 1865	Dionisio Vericchio.
An improved elastic mattrass or bedstead (*Communicated by François Carré.*)	87	11th Jan. 1865	William Edward Gedge.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
UPHOLSTERY, &c.—*continued.*			
Elastic mattresses and bedding - - - (*Communicated by Madame Jeanne Lelarge.*)	99	12th Jan. 1865	Edward Thomas Hughes.
An improved method for the suspension of curtains	193	23rd Jan. 1865	James Badcock.
Improvements applicable to air cushions, mattresses, portable baths, and other like air inflated articles.	317	4th Feb. 1865	Arthur Henry Robinson.
Manufacture of cornice pole and other rings -	977	6th April 1865	Charles Horton Williams.
Manufacture of flock fabrics - - - (*for carpets.*) (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
An improved manufacture of waterproof fabric - (*for carpets, rugs, mats, &c.*) (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
Improvements in door and other mats, part of which improvements is also applicable to brushes and brooms, and to producing card or tooth surfaces employed in operating on various fibrous substances.	1283	9th May 1865	Thomas Jefferson Mayall.
Manufacture of carpets and other terry and cut pile fabrics. (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Manufacture of mats, matting and brushes - -	1758	3rd July 1865	George Hurn. Daniel Hurn.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building, and for other similar purposes - (*stair cloths, mats, &c.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
An improved material for stuffing seats, cushions, mattrasses and other articles. (*Communicated by Emile Rousseau.*)	1800	7th July 1865	Thomas Frederick Henley.
An improved mattress and palliasse for the use of the nursery, invalids or hospitals.	1863	17th July 1865	Stephen Dummere.
Improvements in the sackings of metallic and other bedsteads, sofas, couches and other like articles, which said improvements may also be applied to the seats of chairs, railway carriages and other articles. (*Communicated by Thomas Tunnington.*)	2036	5th Aug. 1865	Henry Geering.
Machinery to be used in the manufacture of stair pads.	2077	10th Aug. 1865	Thomas Allcock.
Manufacture and ornamenting of carpets, rugs and other fabrics. (*curtains.*)	2181	25th Aug. 1865	Lemuel Clayton.
A new or improved ventilating spring mattress -	2511	30th Sept. 1865	Joseph Edwin Townshend.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same. (*See* "OIL-CLOTHS.")	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Bedsteads, seats, couches and other articles for sitting and reclining on.	2656	14th Oct. 1865	James Lamb Hancock.
A new kind of double faced carpet or tapestry with warps of different patterns on each face.	2792	30th Oct. 1865	Alexander Braquenié.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
UPHOLSTERY, &c.—*continued.*			
Improvements in helical or spiral springs for upholstery and other purposes, and in machinery for manufacturing the same. (*Communicated by Frederick Chesbrow Payne and John Spencer Giles.*)	3023	24th Nov. 1865	William Edward Newton.
Construction of door mats, flesh and bath brushes made principally of india-rubber.	3216	13th Dec. 1865	George Barber.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for making matting, for window curtains, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
VALVES, TAPS, STOP-COCKS, PLUGS; REGULATING THE FLOW AND PRESSURE OF FLUIDS.			
Taps - - - - - - -	67	9th Jan. 1865	Joseph Calkin.
Regulating and working the valves of steam and other engines - - - - -	82	11th Jan. 1865	John Frederick Spencer.
Street and other lamps and lanterns - -	151	18th Jan. 1865	John William Gregg.
Steam-engines - - - - - -	166	19th Jan. 1865	William Cleveland Hicks.
Steam-engines - - - - - -	183	21st Jan. 1865	Thomas Lester.
An improved elastic valve and high pressure and general tap - - - - - -	223	26th Jan. 1865	Stephen Sharp. Daniel Smith.
Improved apparatus for preventing the explosion of steam-boilers - - - - -	305	3rd Feb. 1865	John Westerby.
An improved combustion pump - - - (*Communicated by Thomas John Linton.*)	314	4th Feb. 1865	William Clark.
Certain improvements in breech-loading ordnance -	372	10th Feb. 1865	Alfred Krupp.
Improvements in furnaces and boilers and parts connected with them, for generating steam and heating fluids, and also for improved apparatus for reducing and shutting off steam and regulating the speed of steam-engines. (*regulating valve.*)	395	11th Feb. 1865	John Cass.
Expansion gear for steam-engines - - -	415	14th Feb. 1865	William Fothergill Batho.
Hydraulic presses - - - - - -	417	14th Feb. 1865	George Whitton.
An improved method of stopping bottles - -	464	18th Feb. 1865	John James Chidley.
Improvements in mashing-machines and in apparatus connected therewith.	481	21st Feb. 1865	Robert Willison.
Steam-engines - - - - - -	485	21st Feb. 1865	John Russell Swann.
A new and improved balanced slide valve - - (*Communicated by James Rankin.*)	496	22nd Feb. 1865	William Edward Newton.
An improved fluid valve - - - - -	547	27th Feb. 1865	Comyn Ching.
An improved means of securing and protecting the india-rubber rings of buffer springs of railway carriages, which invention is also applicable to air pump and valve seatings and lids faced with india-rubber.	626	6th March 1865	William John Oliver.
Water-closet apparatus - - - - -	648	8th March 1865	John Shanks.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
An improved combined tee-peice and valve -	684	11th March 1865	Charles Johnson.
Apparatus for supplying regulated or measured quantities of water and other fluids.	707	13th March 1865	Robert Gordon Rattray.
Improvements in the means and apparatus employed for treating timber with antiseptic or preservative fluids, also applicable to other purposes.	734	16th March 1865	Samuel Bagster Boulton.
Cocks or valves - - - - - -	754	17th March 1865	William Roberts.
Improved arrangements and apparatus for drawing off liquors or liquids from casks and other vessels, without the aid of pumps.	761	18th March 1865	Joseph Walls.
An improved arrangement of valves and other appliances for a new description of hydraulic engine for raising water and other fluids above their common level, the fluids so raised to be used as a motive-power - - - - -	791	21st March 1865	James Smith. Sydney Arthur Chease.
Stoves or fire-places, ash pans and fenders - -	826	23rd March 1865	James Clifford Morgan.
Obtaining motive-power from aëriform fluids and from liquids.	827	23rd March 1865	Matthew Piers Watt Boulton.
Double cylinder steam-engines - - - -	860	27th March 1865	Joshua Rooke.
Improvements in gas-meters and in the machinery or apparatus connected therewith.	917	31st March 1865	James Bathgate.
Double acting lift and force pumps - -	943	4th April 1865	Charles Denoon Young.
Apparatus employed to actuate the valves of engines worked by steam, air or other fluid. (*See* "STEAM-ENGINES.")	982	6th April 1865	James Grafton Jones.
Certain improvements in gas-engines - -	986	6th April 1865	Pierre Hugon.
Apparatus for preventing explosions in steam-boilers.	1095	20th April 1865	John Hocking the younger.
Taps or stop cocks - - - - - - (*Communicated by Oscar Planat.*)	1101	20th April 1865	William Clark.
Gas regulators and valves for the same - - - (*Communicated by Charles Massey Cresson.*)	1109	20th April 1865	Francis Wise.
Improvements in steam-engines, relating to valve motions, governor and drain pipes - -	1195	29th April 1865	Andrew Wyllie. John McFarlane Gray.
Machinery or apparatus for working or cutting coal or minerals, and for compressing or exhausting air to be employed therein or for other purposes, some parts of which apparatus are also applicable to upright shafts, and other parts for regulating the flow or discharge of steam or other elastic fluids.	1203	29th April 1865	William Leatham.
Valves for liquids, steam and gases - -	1226	2nd May 1865	Thomas Russell.
Improvements in steam generators and engines, and in apparatus for feeding steam generators. (*Communicated by George Bailey Brayton.*)	1240	3rd May 1865	John Henry Johnson.
Steam-engines - - - - - - (*Communicated by Ebenezer Danford.*)	1264	6th May 1865	William Edward Newton.
Apparatus for measuring spirits - - - (*Communicated by John Hutchings Cox, John Murphy and William Murphy.*)	1272	8th May 1865	John Henry Johnson.
A combined safety valve regulator, pressure gauge, water indicator, alarm and "blow off" for steam generators. (*Communicated by Peter Riordan.*)	1305	11th May 1865	John Henry Johnson.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c—*continued.*			
Water gauges and cocks	1330	13th May 1865	Alexander Weir.
Wet gas-meters	1395	20th May 1865	William Smith. George Browne Smith.
A new or improved method of obtaining motive-power, together with certain machinery or apparatus for applying the same	1504	1st June 1865	David Hancock. Frederick Barnes.
Valves for steam and other fluids and liquids	1516	2nd June 1865	John Nuttall.
Safety apparatus for steam-boilers	1523	2nd June 1865	James Shepherd.
Improvements in machinery or apparatus for actuating the slide-valves of marine engines, and in the slide-valves thereof.	1538	5th June 1865	John Robertson.
Dry gas-meters	1548	6th June 1865	Henry Hermann Kromschroeder. John Frederick Gustav Kromschroeder.
Improvements in safety valves, which improvements are also applicable to steam-engine and other valves	1575	9th June 1865	Charles Vernon. William Hodgkins.
Hammers and other machines actuated by steam or other fluid or vapour	1607	14th June 1865	Benjamin Massey. Stephen Massey.
Construction of taps or valves (*Communicated by Ernest Alexandre Ribert.*)	1655	20th June 1865	Edward Griffith Brewer.
Certain improvements in apparatus for measuring and indicating the flow of liquids.	1674	22nd June 1865	Edward Kenworthy Dutton.
A new and improved food or fluid regulator for feeding bottle and other tubes.	1727	28th June 1865	William Botham.
Locomotive engines (*Communicated by Auguste De Bergue.*)	1754	3rd July 1865	Charles De Bergue.
Steam pumping machines or engines	1760	3rd July 1865	Martin Benson.
Steam and water valves	1834	11th July 1865	Nathaniel Jenkins.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Slide valves	1893	20th July 1865	Richard Clark Bristol.
Construction of valves for steam and other engines (*Communicated by Thomas Shrimton Davis.*)	1913	22nd July 1865	William Edward Newton.
An improved portable chamber or receptacle to contain aërated liquids, and the apparatus connected therewith by which the flow of such liquid is regulated and measured.	1923	25th July 1865	Max Benjamin Schumann.
Conical plug steam valves (*Communicated by John Wesley Carhart.*)	1956	28th July 1865	William Edward Newton.
Improvements in the construction of atmospheric railways and carriages, and in working the same.	1987	1st Aug. 1865	Alexander Doull.
Apparatus applicable as a motive-power engine, a pump or fluid meter. (*Communicated by Francis Bernard de Keravenan.*)	2021	4th Aug. 1865	William Clark.
Apparatus for filtering sugar and other liquid solutions	2023	4th Aug. 1865	Jean Adolphe Leon. George Tessimond. John Kissack.
Apparatus for regulating the passage or flow of steam, water and other fluids.	2043	7th Aug. 1865	Adrienne Anastasie Foubert.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
An improved mode of relieving slide valves of back pressure.	2069	9th Aug. 1865	James William Longstaff.
Gas-burners - - - - - -	2094	12th Aug. 1865	Henry Woodward.
Steam hammers - - - - - -	2174	24th Aug. 1865	David Davies.
Improvements in apparatus by means of which certain liquids, common air, and certain elastic fluids are made available in the production of light, and their quantity regulated and measured, parts of which improvements are applicable for other purposes.	2184	25th Aug. 1865	Edwin Augustus Curley.
Apparatus for supplying regulated or measured quantities of water.	2199	26th Aug. 1865	Robert Gordon Rattray.
Improved apparatus for supplying boilers with water. (*actuating the lifting valves.*) (*Communicated by Gustav Adolph Riedel.*)	2211	28th Aug. 1865	Alfred Vincent Newton.
Certain improvements in steam-engines and valves (*Communicated by George Ichabod Washburn.*)	2286	6th Sept. 1865	William Clark.
An improved safety valve for steam-boilers - -	2323	11th Sept. 1865	Henry Hackett. Thomas Wrigley. Edmund Pearson.
Vent pegs for casks or vessels from which beer or other liquid is drawn off from time to time.	2365	15th Sept. 1865	Robert Mann Lowne.
A new and improved machine for the collecting and diffusing of water or other fluids.	2419	22nd Sept. 1865	Charles Wyatt Orford.
Apparatus for lubricating machinery - - (*slide valves.*) (*Communicated by Joseph Bouillon.*)	2429	23rd Sept. 1865	Henri Adrien Bonneville.
Hydraulic pressure engines - - -	2445	23rd Sept. 1865	Jacob Dreisörner.
Steam-engines - - - - - - (*valve motion.*)	2479	27th Sept. 1865	John Rodger Arnoldi.
Improved self-centering and tightening chucks for drilling-machines, lathes, and other machines in which chucks are used. (*taps.*) (*Communicated by John Edwin Earle.*)	2491	28th Sept. 1865	Edward Thomas Hughes.
Machinery and apparatus for bleaching, soaping, clearing and washing fibrous and other materials, yarns and fabrics - - - -	2501	29th Sept. 1865	William Schofield. John Smith.
Pneumatic ways for the transmission of letters, merchandize and passengers. (*Communicated by Elias Parkman Needham.*)	2537	3rd Oct. 1865	William Edward Newton.
Double or single action pumps - - - (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
Improvements in and applicable to slide valves, pistons and glands - - - -	2700	19th Oct. 1865	Thomas Adams. George John Parson.
An improved apparatus for regulating the supply of water to tanks, water butts or cisterns, applicable also to other purposes - - - (*valve tap and regulator.*)	2710	20th Oct. 1865	Richard Fell. Davy Hammond.
Steam-engines - - - - -	2759	26th Oct. 1865	Edmund Hunt.
Looms for weaving - - - - (*opening the air valves.*)	2843	3rd Nov. 1865	Arthur Heald.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VALVES, &c.—*continued.*			
Regulating the flow of water and other fluids in pipes and valves, and determining the quantity passing through the same.	2905	11th Nov. 1865	Joseph Alfred Nicholson.
Method and means of securing and discharging the contents of pipes and vessels.	2926	14th Nov. 1865	Samuel Middleton.
Improvements in cocks for steam, water, air and gases at high pressures, and also in gauge cocks and water gauges for boilers, and sediment tubes for cocks and pipes.	2990	21st Nov. 1865	Samuel Bennett.
An improvement in ejectors for discharging bilge water and for other purposes. (*Communicated by Nathan Leffingwell Chappell.*)	3001	22nd Nov. 1865	Alfred Vincent Newton.
Apparatus for increasing the safety of railway passengers and trains, signalling and forming a communication externally and internally between all parts of such trains, lighting, warming and securing the doors of the carriages, and indicating therein and at the stations the names of the places at which the train stops. (*form and packing of spherical taps.*)	3068	29th Nov. 1865	Richard Howarth.
Certain apparatus for injecting and ejecting fluids and liquids.	3179	9th Dec. 1865	Andrew Barclay.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
Improved apparatus for burning combustible vapor (such as that from naphtha or coal oil) for heating, cooking and lighting purposes. (*Communicated by James Stratton.*)	3317	22nd Dec. 1865	George Davies.
Cocks or valves - - - - - (*Communicated by Henry Moore.*)	3333	23rd Dec. 1865	Charles Woodward Moore.
VENTILATION; SUPPLYING AND PURIFYING AIR FOR BUILDINGS, MINES, SHIPS, CARRIAGES, &c.			
Construction of railway carriages - - (*and ventilating.*)	95	11th Jan. 1865	Rock Chidley.
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating, or winnowing grain, or other analogous purposes.	174	20th Jan. 1865	Louis Balma.
Boots and shoes - - - - - -	190	23rd Jan. 1865	John Eadie.
Improvements in armour plated and other ships or vessels, also applicable to fortifications generally. (*tubes for ventilation.*)	296	2nd Feb. 1865	Julius Saunders Jeffreys.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*moving punkahs.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VENTILATION, &c.—*continued.*			
Apparatus for ventilating horticultural and other buildings.	332	6th Feb. 1865	Charles Beard.
Improvements in ventilating blinds or screens, and in means of ventilating ships and vessels.	433	15th Feb. 1865	Charles Lungley.
Improvements in treating sewage and in arranging apparatus in sewers and culverts to facilitate the ventilation of such structures.	451	16th Feb. 1865	Richard Smith.
Apparatus for ventilating hats - - -	498	22nd Feb. 1865	John Carter.
Improvements in ships of war, partly applicable to ships designed for the merchant service. (*Communicated by Augustus Walker.*)	509	23rd Feb. 1865	George Haseltine.
Apparatus for heating and cooling atmospheric air and other aëriform bodies, and for heating ovens and for heating and ventilating buildings.	636	7th March 1865	Loftus Perkins.
Furnaces and fire-places - - - -	692	11th March 1865	Edward Brown Wilson.
Improvements in securing low and uniform temperatures, applicable to public and private buildings, also to refrigerators, coolers and condensers, and to ships and other vessels, and in the apparatus employed therein. (*Communicated by Daniel Somes.*)	719	14th March 1865	Alfred Vincent Newton.
Improved means of ventilation by the use of perforated tubular cornices and centre-pieces.	813	23rd March 1865	Thomas Harvey Saunders.
Ventilating blinds - - - -	879	28th March 1865	Henry Welchman King.
Improved apparatus for collecting or receiving pulverized flint or dust.	909	31st March 1865	Elias Leak.
An improved hat ventilator - - - -	961	5th April 1865	Robert Stanley.
Improvements in machinery or apparatus for drilling or boring rocks and other hard substances, in tunnelling, mining and other like operations, parts of which improvements are also applicable to the ventilating of the workings in mines and similar places. (*Communicated by Herman Haupt.*)	981	6th April 1865	John Henry Johnson.
Fire-places and flues and apparatus connected therewith.	989	7th April 1865	Edward Welch.
Improvements in apparatus for lighting and ventilating ships, part of which is also applicable for producing fresh water at sea.	995	7th April 1865	Henry Edmonds.
Means and apparatus employed for preventing downward draft in chimnies, facilitating the escape of smoke therefrom, and for ventilating apartments or buildings - - -	1471	29th May 1865	Edward Myers. James Stodart.
An improved method of and machinery for cutting and excavating rock for railway tunnels and other purposes. (*Communicated by Thales Lindsley.*)	1587	12th June 1865	George Haseltine.
Method of constructing partitions, walls, floors and roofs of buildings.	1598	13th June 1865	John James Bodmer.
Improvements in ventilating railway carriages and in the apparatus to be employed therefor.	1648	19th June 1865	William Clay.
Improved sanitary apparatus or arrangements for preventing noxious exhalations such as arise when smelting or treating iron or other articles -	1690	24th June 1865	Matthew Andrew Muir. James M'Ilwham.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VENTILATION, &c.—*continued.*			
Improvements in tubular structures rendering them specially applicable for ships' masts and building purposes. (*shafts for ventilation.*)	1755	3rd July 1865	Edward Deane.
Means of obtaining or producing oxygen applicable to various useful purposes. (*for purifying air in ships, mines, &c.*)	1780	6th July 1865	Hermann Beigel.
A diving apparatus for submarine purposes - -	1837	12th July 1865	Thomas Cato McKeen.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Ventilators - - - - - - -	1866	18th July 1865	John Paul Baugh Le Patourel.
Fire engines and hydraulic machines - - (*or concentrated ventilators.*)	1953	28th July 1865	Leon Paul Laroche.
Roofing-tiles and slabs - - - - - (*ensuring ventilation.*)	1991	1st Aug. 1865	Frederick Ransome.
Ventilators - - - - - - -	2111	16th Aug. 1865	James Billings.
Punkahs - - - - - - -	2148	19th Aug. 1865	John Edwin Marsh.
An improved arrangement of apparatus and materials to be employed for effecting the deodorizing of the noxious gases arising from sewers and drains, and for the more effectual ventilation and inspection of such sewers and drains.	2451	25th Sept. 1865	Edward Brooke the younger.
Apparatus for ventilating and for preventing down draught in flues.	2467	26th Sept. 1865	John Hilliar.
A new or improved ventilating spring mattress -	2511	30th Sept. 1865	Joseph Edwin Townshend.
Certain improvements in window fittings - -	2603	10th Oct. 1865	William Cooke.
An improved ventilating apparatus for use in steam boats, vessels and other places requiring to be ventilated.	2609	10th Oct. 1865	John Garrison Woodward.
Trapping and ventilating sewers - - -	2614	10th Oct. 1865	Richard Abell.
Greenhouses - - - - - -	2684	18th Oct. 1865	Thomas Hungate Preston Dennis.
Ventilators for windows and other like openings -	2799	31st Oct. 1865	David Blair White.
Improvements in apparatus for obtaining fresh water from salt and impure water, also applicable for ventilating purposes.	2953	17th Nov. 1865	Samuel Hazard Huntly.
Apparatus for preventing draughts of air between the floor and the lower part of doors.	3050	28th Nov. 1865	Louis Desiré Carbonnier.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - - -	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
Improvements in constructing atmospheric railways and carriages, and in working the same, parts of which are applicable to exhausting and condensing air for other purposes. (*for ventilation.*)	3173	9th Dec. 1865	Alexander Doull.
An improved mode of and apparatus for purifying and deodorising impure air, whether in buildings, ships, mines or sewers, which improvement is also applicable for ventilating purposes - -	3287	20th Dec. 1865	Joseph John Harrison. Edward Harrison.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
VENTILATION, &c.—*continued.*			
A new and improved apparatus for cooling and purifying air in rooms or compartments, and ventilating the same. (*Communicated by Azel Storrs Lyman.*)	3292	20th Dec. 1865	William Clark.
Pipes, tubular columns and hollow structures, for masts, oars, sheer legs, life boats and ordinary boats, for water, gas and waste water pipes, and for other similar constructions where great strength is required. (*shafts for ventilation.*	3314	22nd Dec. 1865	Edward Deane.
VICES, PINCERS, WRENCHES, DRILL-BRACES, SCREWSTOCKS AND SCREW-DRIVERS.			
Drilling apparatus for hand or steam power adaptable also as a vice and for lifting purposes	18	3rd Jan. 1865	George Hodgson. James Pitt.
Improved pincers for gas and other pipes (*Communicated by Jules Charitiez.*)	86	11th Jan. 1865	William Edward Gedge.
Machinery for opening and carding cotton and other fibrous materials. (*vice for holding the lags of spiked drums.*)	90	11th Jan. 1865	Robert Tempest.
Shifting wrenches (*Communicated by Pierre Augustin Samuël.*)	457	17th Feb. 1865	William Clark.
Apparatus used for bending the ends of walking sticks, and the sticks or handles of umbrellas and parasols	682	10th March 1865	Joshua Jones. Richard Daniel Jones.
Construction of screws and screw drivers (*Communicated by Jared Augustus Ayres.*)	1387	19th May 1865	Alfred Vincent Newton.
Vices	1472	29th May 1865	William Johnson.
Tube cutters and screw stocks	1527	3rd June 1865	Charles Taylor.
Vices	1761	3rd July 1865	Louis Henry. Gustavus Ehrhardt.
An improved combination drill brace	2212	28th Aug. 1865	Edward Davies. Richard Hobbs Taunton.
Screw wrenches (*Communicated by Monsieur Charles Bourquin.*)	2396	20th Sept. 1865	Hector Auguste Dufrené.
Screw wrenches (*Communicated by Charles Churchill.*)	2783	28th Oct. 1865	James Buckingham.
A combined adjustable spanner, tube cutter and pipe wrench. (*Communicated by Henry Hitchings Baragwanath and Martin Van Wisker.*)	3036	27nd Nov. 1865	John Phillips Bar agwanath.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WASHING, CLEANSING AND WRINGING FABRICS, YARNS AND MATERIALS.			
Washing, squeezing and mangling machinery -	32	5th Jan. 1865	John William Branford.
Machinery or apparatus for washing wool and other fibrous materials.	251	28th Jan. 1865	John Petrie, jun^{r}.
Machinery for washing and drying wool and other fibrous materials - - - - -	281	1st Feb. 1865	John M^{c}Naught. William M^{c}Naught, jun^{r}.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pier heads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*driving washing-machines.*) (*Communicated by William Graham M^{c}Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Apparatus for rinsing and drying by centrifugal force. (*Communicated by Félix Monmon and Auguste Racinet.*)	604	4th March 1865	Henri Adrien Bonneville.
Washing machines - - - - - (*Communicated by Félix Monmon and Auguste Racinet.*)	605	4th March 1865	Henri Adrien Bonneville.
Machinery or apparatus to be employed in the bleaching and dyeing of hanks or skeins of yarns and threads. (*apparatus for washing.*)	718	14th March 1865	Longin Gantert.
Apparatus for washing wool, hair and other fibre -	808	22nd March 1865	George Edmund Donisthorpe.
An improved machine for washing, wringing and mangling.	837	24th March 1865	James Andrew Swanzy.
Improvements in wringing machines, parts of which are applicable to the construction of rollers. (*Communicated by Stephen Wing and Henry Holly.*)	922	1st April 1865	Henry Lewis.
Treating wool in order to cleanse it from burrs, seeds and other foreign matters - - -	1042	12th April 1865	Henry Sikes. George Jarmain.
Washing or steeping and bleaching textile or fibrous materials. (*Communicated by Messieurs Neyret, Orioli and Fredet.*)	1144	24th April 1865	William Clark.
Improvements in treating fibrous materials and textile fabrics, and in producing soap. (*Communicated by Leon Pasquier and Alphonsine Julie Dumont.*)	1443	25th May 1865	Michael Henry.
A new or improved machine for washing raw materials, worked out or unworked, to be employed in the manufacture of fabrics, and specially of fabrics made into pieces.	1464	29th May 1865	Jean Alphonse Heinrich.
Machinery or apparatus for washing wool and other fibrous materials.	1500	31st May 1865	John Petrie, jun^{r}.
Washing-machines - - - - -	1744	30th June 1865	William Hook Davey.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WASHING, &c.—*continued.*			
An improved self-acting apparatus for obtaining a circulation of volatile liquids. (*applied to cleaning linen.*) (*Communicated by Messieurs Francisque Massot and Auguste Juquin,*)	1816	8th July 1865	Hector Auguste Dufrené.
Machinery for washing, wringing, mangling and drying domestic clothes or other fabrics and fibrous substances - - - - -	1827	10th July 1865	Henry Fearnly. Christopher Smith.
An improved apparatus for cooking, a portion of the same being applicable for washing and ironing.	1917	22nd July 1865	William Wapshare.
A new or improved detergent solution to be used in the washing or cleansing of wool and woollen fabrics. (*Communicated by Charles Dyonise Reinfeld.*)	1932	25th July 1865	John Henry Johnson.
Machinery or apparatus for washing wool and other fibrous materials.	2039	5th Aug. 1865	John Petrie, jun^{r}.
Apparatus for washing yarns - - - -	2044	7th Aug. 1865	William Pollock. John Stobo.
Machinery used in washing, bleaching and dyeing yarns and textile fabrics, in the hank - -	2113	16th Aug. 1865	John Smith. William Schofield.
Improvements in washing fabrics and threads, and in machinery employed therein. (*Communicated by Stanislas Vigoureux.*)	2126	17th Aug. 1865	Richard Archibald Brooman.
Clothes wringing machines, the mode of communicating rotary motion in which is also applicable to other machines having similarly rotating parts. (*Partly communicated by James Pease and David Lyman.*)	2336	12th Sept. 1865	Thomas Drew Stetson.
An improved arrangement and combination of the working parts of machinery or apparatus employed for washing, wringing and mangling clothes and fabrics.	2450	25th Sept. 1865	George Frederic Smeeton.
Construction of washing-machines and churns -	2471	27th Sept. 1865	John Taylor.
Washing and wringing machines - - - - (*Communicated by Thomas Bletcher.*)	2478	27th Sept. 1865	Richard Archibald Brooman.
Machinery and apparatus for bleaching, soaping, clearing and washing fibrous and other materials, yarns and fabrics - - - - - -	2501	29th Sept. 1865	William Schofield. John Smith.
Improved machinery for feeding fibrous substances to preparing, carding and other machinery for working wool and other filamentous substances. (*washing-machines.*) (*Communicated by Alexandre Deru.*)	2517	30th Sept. 1865	William Edward Newton.
An improved washing or cleansing liquor or solution.	2582	7th Oct. 1865	James Roddy.
Rollers for washing yarns and fabrics and for other purposes - - - - - - -	2686	18th Oct. 1865	William Schofield. John Smith.
Improvements in the mode of applying mineral soda to the scouring and lubrication of textile matters and machinery, and in the manufacture of soap.	3107	4th Dec. 1865	Leopold Joseph Bouchart.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WASHING, &c.—*continued.*			
Means or apparatus for the fulling, scouring and cleansing of wollen yarns and cloths - - -	3221	13th Dec. 1865	Benjamin Porritt. William Priestley.
For Washing Ores, *see* "METALS." For Washing Bottles, *see* "BOTTLES." For Washing Casks, *see* "CASKS." For Washing Coals, *see* "FUEL." For Washing Potatoes, *see* "PRESERVING FOOD." For Washing Corn, *see* "THRASHING." For Washing Clay, *see* "BRICKS."			
WATER-CLOSETS, URINALS AND COMMODES.			
Water-closet apparatus - - - - -	648	8th March 1865	John Shanks.
Apparatus for supplying regulated or measured quantities of water and other fluids. (*to urinals, &c.*)	707	13th March 1865	Robert Gordon Rattray.
Seats of water-closets - - -	967	5th April 1865	Jean Isidore Darribet.
Indicators and fastenings for water-closets and other purposes.	1096	20th April 1865	Henry Kindon Taylor.
Water-closets - - - - - -	1364	17th May 1865	Fielding Fletcher.
Mechanical arrangement of water-closets for ships -	1740	30th June 1865	Henry William Rosser.
A new or improved apparatus for supplying disinfecting liquids to water-closets, urinals and other places requiring the same.	1879	19th July 1865	Charles Nicholas.
Water-closet apparatus, urinals and the like, and appliances thereto.	2270	4th Sept. 1865	Stephen Kettle.
Ships' water-closets - - - - -	2546	4th Oct. 1865	Edwin William de Rusett. Richard Farrell Dale.
An improved description of water-closet - -	2912	13th Nov. 1865	Peter Ellis.
An improved mode of applying the compression of air for ventilating purpose, and the compression of any gas for hurrying along elastic fluids in conveying pipes - - - - (*purifying cesspools.*)	3153	8th Dec. 1865	Piarron de Mondésir. Paul Lehaitre. Augustin Jullienne.
WATERING; SUPPLYING AND DISTRIBUTING WATER; FOUNTAINS AND WELLS.			
An improved portable pneumatic apparatus applicable in surgery and medicine for all purposes as a douche, for affusion, irrigation, injection, and for enemas. (*see* "MEDICINES.")	16	3rd Jan. 1865	Thomas John Ashton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERING, &c.— *continued.*			
An improved machine for raising and carrying earth, sand, stones or other similar solid or liquid materials for dredging, ventilating or winnowing grain, or other analogous purposes. (*for agricultural irrigation.*)	174	20th Jan. 1865	Louis Balma.
Filtering apparatuses - - - - - (*for supply of towns.*)	249	28th Jan. 1865	Victor Burq.
An improved method of propelling agricultural implements. (*for irrigation.*)	1618	15th June 1865	Virgile Poitevin.
Steam pumping machines or engines - -	1760	3rd July 1865	Martin Benson.
Fountains - - - - - - -	1823	10th July 1865	Frederick Taylor.
Means of and apparatus for raising water for agricultural and other useful and ornamental purposes. (*Communicated by Jean Louis Celestin Achard.*)	1918	22nd July 1865	William Edward Gedge.
Fire engines and hydraulic machines - - -	1953	28th July 1865	Leon Paul Laroche.
Well sinking tubes - - - - - (*Communicated by Hiram John Messenger, Stephen Brewer and Byron Mudge.*)	2178	24th Aug. 1865	William Edward Newton.
Apparatus for supplying regulated or measured quantities of water.	2199	26th Aug. 1865	Robert Gordon Rattray.
Improved apparatus for supplying boilers with water. (*Communicated by Gustav Adolph Riedel.*)	2211	28th Aug. 1865	Alfred Vincent Newton.
Hydropults and hydrostatic pumps - -	2305	8th Sept. 1865	James Webster.
A new and improved machine for the collecting and diffusing of water or other fluids.	2419	22nd Sept. 1865	Charles Wyatt Orford.
Improvements in apparatus and means for extinguishing fires, part of such improvements being applicable for other purposes. (*for watering gardens.*)	2559	5th Oct. 1865	William Henry Phillips.
Double or single action pumps - - (*Communicated by Claude Gonin.*)	2622	11th Oct. 1865	William Edward Gedge.
An improved apparatus for regulating the supply of water to tanks, water butts or cisterns, applicable also to other purposes - - -	2710	20th Oct. 1865	Richard Fell. Davy Hammond.
Improvments in sinking and operating wells, and in the apparatus employed therein. (*Communicated by James Suggett.*)	3074	30th Nov. 1865	John Henry Johnson.
Pumps - - - - - - (*for waterworks.*)	3330	23rd Dec. 1865	Henry Davis Hoskold. William Blanch Brain.
See also "VALVES." For Water Pipes, *see* "PIPES."			
WATERPROOF, FIREPROOF AND AIRPROOF FABRICS, BUILDINGS, &c.; WATERPROOFING, FIREPROOFING AND AIRPROOFING.			
Vulcanizing compounds and vulcanized fabrics - (*Communicated by Simon Stevens.*)	176	20th Jan. 1865	Benjamin Franklin Stevens.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERPROOFING, &c.—*continued.*			
Improvements in the treatment of oils obtained from the distillation of tar, and in the application of the same to the purposes for which ordinary drying oils are applicable. (*for waterproofing.*) (*Communicated by Claudius Cordier and Vincent Cordier.*)	244	27th Jan. 1865	John Henry Johnson.
Certain improvements in rendering uninflammable cotton, silk and other textile fabrics.	313	4th Feb. 1865	Edouard Hottin.
Waterproofing skins, hides and leather - -	413	14th Feb. 1865	George Harton.
Waterproof and other coats and capes - - -	471	18th Feb. 1865	Charles Désiré Barge. Alexandre Hermant.
Improved means of preventing the leakage of barrels, and of rendering packages and fabrics impervious to air and gases. (*Communicated by Lewis Francis and Cyrus Loutrel.*)	913	31st March 1865	Alfred Vincent Newton.
Manufacture of a compound or material to be used as a substitute for india-rubber. (*Communicated by Henry Loewenberg and Emile Granier.*)	1068	15th April 1865	William Clark.
Improvements in the manufacture of waterproof fabrics and in apparatus to be employed therein -	1159	25th April 1865	John Collins Wickham. Auguste Edward Deiss.
An improved manufacture of waterproof fabric - (*Communicated by The American Waterproof Cloth Company.*)	1219	1st May 1865	William Edward Newton.
Manufacture of parkesine or compounds of pyroxyline and also solutions of pyroxyline known as collodion. (*for waterproofing cloth.*)	1313	11th May 1865	Alexander Parkes.
Umbrellas, parasols and sunshades - - -	1529	5th June 1865	John Stephenson.
An improved combination of materials for the manufacture of carpets, floor cloth, felt, wall paper, fireproof flexible roofing, ship and boat building and for other similar purposes - - (*fireproof.*)	1775	5th July 1865	John Longbottom. Abram Longbottom.
An improved process for applying airproof solutions to the interior of casks and barrels. (*Communicated by Edward Delavan Woodruff.*)	1957	28th July 1865	William Edward Newton.
Compounds for waterproofing and insulating purposes.	1962	29th July 1865	Frederick Augustus Abel.
Preparing charges for fire-arms and for blasting - (*waterproofing the charges.*)	2266	2nd Sept. 1865	Constant Reichen.
Cricket, racket, tennis and foot balls - -	2328	11th Sept. 1865	Charles Huntley.
An improvement in the manufacture of waterproof soles for boots and shoes.	2449	25th Sept. 1865	John Wiggins Coburn.
Manufacture of knickerbockers and such like coverings for the legs.	2460	26th Sept. 1865	William Ambler.
An improved process for preparing skins and hides or leather, so as to render such substances waterproof and more durable than heretofore.	2516	30th Sept. 1865	John William Moore Miller.
Cartridges for breech-loading fire-arms - -	2542	4th Oct. 1865	Joseph Jones. Frederick James Jones.
An improved composition or material to be employed in waterproofing or rendering woven fabrics impervious to moisture.	2568	6th Oct. 1865	Henry Francis Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERPROOFING, &c.—*continued.*			
Rendering wood for building and other purposes non-combustible or non-inflammable.	2625	11th Oct. 1865	William Bull.
A new composition of indian-rubber mastic or cement, made in a more or less fluid state according to the use to be made of it, and the process or contrivance for applying the same.	2630	12th Oct. 1865	Auguste Aimé Lerenard.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water proof. (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Waterproof linings of cases, boxes and apparatus in which articles are desired to be packed waterproof.	3201	11th Dec. 1865	John Jonas.
Improvements in the manufacture of boots and shoes for rendering them waterproof.	3270	19th Dec. 1865	James Bolton.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*as a waterproof sizing.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
WATERWHEELS AND ENGINES; HYDRAULIC MOTIVE-POWER.			
Motive-power and means of communication between passengers while travelling and appliances connected therewith.	55	7th Jan. 1865	George Bell Galloway.
Improved arrangements for coupling steam-engines, turbines or other apparatus employed as motive-power. (*Communicated by Ludwig August Riedinger.*)	159	19th Jan. 1865	Adolf Wilhelm Preger.
Steam-engines - - - - - (*or water engines.*)	166	19th Jan. 1865	William Cleveland Hicks.
Beam engines - - - - -	468	18th Feb. 1865	James Grafton Jones.
An improved mercuro-hydraulic motor - - (*Communicated by Pierre Eugene Louvier.*)	492	22nd Feb. 1865	Richard Archibald Brooman.
Obtaining motive-power from aëriform fluids and from liquids.	501	22nd Feb. 1865	Matthew Piers Watt Boulton.
An improved arrangement of valves and other appliances for a new description of hydraulic engine for raising water and other fluids above their common level, the fluids so raised to be used as a motive-power - - - - -	791	21st March 1865	James Smith. Sydney Arthur Chease.
Obtaining motive-power - - - -	802	22nd March 1865	Valentine Baker.
Improvements in obtaining motive-power, parts of of which improvements are applicable to the compressing of air and gases.	840	24th March 1865	Valentine Baker.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERWHEELS, &c.—*continued.*			
Improvements in paddle wheels, parts of which are applicable to other purposes. (*to water-engines.*)	935	3rd April 1865	William Cantrill Gollings.
Means or apparatus for obtaining motive-power by the aid of steam, gas or other fluids. (*Communicated by Joseph Perrigault, Marie Joseph Denis Farcot, Jean Joseph Léon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Château and Emmanuel Denis Farcot.*)	949	4th April 1865	William Brookes.
A new motive-power engine - - -	1052	12th April 1865	Herman Leonhardt.
A new method of obtaining and applying water as a motive-power for propelling ships, boats and other vessels.	1053	13th April 1865	George Rosselet.
Improvements in means or apparatus for measuring the flow or passage of liquids, which improvements are also applicable in obtaining motive-power.	1150	25th April 1865	Thomas Walker.
Improved means or apparatus for gaining or acquiring motive-power.	1156	25th April 1865	Claude Jacquelin, jun^{r}.
Certain improvements in water wheels - - (*Communicated by Eugène Romestin.*)	1189	28th April 1865	Arthur Charles Henderson.
A new or improved method of obtaining motive-power, together with certain machinery or apparatus for applying the same - - - -	1504	1st June 1865	David Hancock. Frederick Barnes.
Machinery for obtaining power when fluid pressure is employed.	1576	9th June 1865	Lieutenant-Colonel James Baker.
Hydraulic motive-power machinery - -	1642	17th June 1865	Valentine Baker.
An improved hydraulic apparatus for producing motive-power.	1701	26th June 1865	Josse Egide Spanoghe.
Construction or arrangement of sluices or dams -	1870	18th July 1865	Timothy Ward Wood.
Certain improvements in the method of obtaining motive-power and in apparatus connected therewith.	1910	22nd July 1865	Edmund Perré.
Means of and apparatus for raising water for agricultural and other useful and ornamental purposes. (*Communicated by Jean Louis Celestin Achard.*)	1918	22nd July 1865	William Edward Gedge.
An improved water meter, which may be employed as a water, steam or gas engine. (*Communicated by Henry Isham.*)	1958	28th July 1865	William Edward Newton.
Applying and utilising water power - -	1967	29th July 1865	Valentine Baker.
Means of and mechanism for obtaining motive-power.	2020	4th Aug. 1865	Adderley Sleigh.
Apparatus for obtaining motive-power - -	2425	22nd Sept. 1865	George Binnie M^{c}Nicol.
Hydraulic pressure engines - - - -	2445	23rd Sept. 1865	Jacob Dreisörner.
A new method of obtaining and applying water as a motive-power, for propelling ships by means of paddle wheels, inside and outside.	2641	13th Oct. 1865	George Rosselet.
Improvements in means or apparatus for measuring the passage or flow of liquids, for raising and forcing fluids, and for obtaining motive-power, also in means for the manufacture of parts of such apparatus.	2968	17th Nov. 1865	Walter Payton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WATERWHEELS, &c.—*continued.*			
Turbines for obtaining motive-power, applicable also to raising and forcing fluids, and to propelling ships or vessels. (*Communicated by Joseph Denis Farcot, Jean Joseph Léon Farcot, Michel Basile Abel Farcot, Joseph Etienne Eloi Chateau and Emmanuel Denis Farcot.*)	3222	13th Dec. 1865	William Brookes.
Producing and applying rotating motion by means of an apparatus to be worked by fluids, steam, compressed air, or by water or by gas.	3272	19th Dec. 1865	John Wright Carr.
A new or improved method of and apparatus or machinery for applying water or other fluid as a motive-power - - - - -	3328	23rd Dec. 1865	Edmund Dwyer. Henry Moon.
See also "GOVERNORS."			
WEARING-APPAREL, MILITARY OUTFITS; TAILORS' TRIMMINGS.			
An "improved clothes fastener" that may also be used as a letter clip. (*See* "DRYING.")	268	31st Jan. 1865	James William Gill.
Garments for ladies', gentlemen's and children's wear.	355	8th Feb. 1865	Julius Singer.
Manufacture of skirt borderings and linings to be applied to wearing apparel. (*Communicated by Carl Spannagel.*)	361	8th Feb. 1865	William Staats.
Machinery and tools for making collars, cuffs, wristbands and other articles of dress, also adapted for cutting metal blanks - -	399	13th Feb. 1865	David Barr. William Henry Page. James Clement Newey.
A new or improved combined garment - -	423	14th Feb. 1865	Robert Pasco Barrett.
Waterproof and other coats and capes - -	471	18th Feb. 1865	Charles Désiré Barge. Alexandre Hermant.
Certain improvements in scarfs and in the manufacture of the same. (*Communicated by Leon de Moses Pariente.*)	491	22nd Feb. 1865	Isaac Pariente.
Gaiters, spatter-dashes and other similar articles -	569	1st March 1865	Jean Baptiste Toussaint.
An improved method of and means or apparatus for measuring the human body. (*for coats.*)	635	7th March 1865	John Heselgrave Wilson.
An improved machine for cutting button holes - (*Communicated by George Rehfus.*)	687	11th March 1865	Julius Garelly.
An improved method of treating, cleaning or preparing painted or other canvas, tarpaulins and dirty cotton waste, so as to render the same suitable to be used for household and other purposes for which they may be applicable. (*for cutting up into garments.*)	752	17th March 1865	William Maurice Williams.
Mode of forming and making clothing - - (*Communicated by Thomas Scott Lambert, M.D., and Theodore Bourne.*)	758	18th March 1865	Gerard Ralston.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEARING-APPAREL, &c.—*continued.*			
Mechanism for attaching buttons to fabrics - - (*Communicated by George Rehfuss.*)	763	18th March 1865	Francis Wise.
Improvements applicable to capes, paletôts, overcoats and other such like garments.	1128	22nd April 1865	John Emary.
Improved apparatus for securing buttons to fabrics (*Communicated by William James Gordon and Edmund David Gilbert.*)	1151	25th April 1865	George Davies.
Manufacture of flock fabrics - - - - (*for robe linings, clothing, &c.*) (*Communicated by The American Waterproof Cloth Company.*)	1218	1st May 1865	William Edward Newton.
An improvement in buttons and means of attaching the same.	1294	10th May 1865	Herbert William Hart.
Apparatus for measuring the human figure for garments.	1528	3rd June 1865	Edward Eastman.
An improved description of stud for fastening shirts, cuffs, waistcoats and other articles of wearing apparel. (*see* "BUTTONS.")	1616	15th June 1865	Stanislaus Helcman.
Under vests - - - - - -	1721	28th June 1865	James Webster.
Manufacture or "making up" of trousers - -	1825	10th July 1865	John Jones.
Improvements in apparatus and equipments used by persons employed under water, part of the improvements being also applicable for the use of persons employed where noxious gases or vapours prevail.	1840	12th July 1865	Auguste Denayrouze.
Parts of military and other outfits - - -	1926	25th July 1865	Thomas Jefferson Mayall.
Apparatus for taking measurements - - - (*Communicated by George Beard.*)	2112	16th Aug. 1865	William Clark.
Apparatus for elongating and contracting waist and other belts, which apparatus is also applicable for other purposes - - - - - (*fastenings for trousers, &c.*)	2224	29th Aug. 1865	George Frederick White. Harvey Chamberlain.
Apparatus applied to pockets to ensure the safety of their contents - - - - - -	2230	30th Aug. 1865	Charles Francis Anderson. David Durant.
Ornamentation of fringes and trimmings - -	2280	5th Sept. 1865	Thomas Bird Bailey.
Articles of wearing apparel - - - - - (*see* "SHIRTS.")	2317	9th Sept. 1865	Richard Charles Newbery.
Improvements in buttons and in attaching buttons to garments or fabrics.	2753	25th Oct. 1865	George Augustus Huddart.
An improved method of draughting patterns for coats, waistcoats and other close fitting garments, and apparatus to be used in obtaining the measurements for the same - - - -	2955	17th Nov. 1865	John Henry Smith. George Robert Smith.
Improvements in sewing-machines and in sewing or embroidering. (*making button holes.*)	3079	1st Dec. 1865	Isaac Merritt Singer.
Improvements applicable to coats, cloaks and other like outer garments - - - - -	3157	8th Dec. 1865	William Calvert. John Stewart Robertson.
Improvements in buttons and in the method of attaching buttons and ornaments to garments and other articles. (*Communicated by Frederic Ingersoll Palmer.*)	3164	8th Dec. 1865	George Tomlinson Bousfield.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEARING-APPAREL, &c.—*continued.*			
Obtaining and employing continuous lengths of tanned leather for various useful purposes (*for trousers, coats, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
See also "BUTTONS." *See also* "GLOVES." *See also* "HATS." *See also* "SHIRTS." *See also* "PETTICOATS."			
WEAVING, BRAIDING, PLATTING; PREPARING FOR WEAVING.			
I.—Sizing, Warping, Beaming and Preparing Yarns for Weaving.			
Improved mechanism for giving intermittent or continuous revolving motion of different velocities, without the use of change wheels (*taking up beams of sizing-machines.*)	272	31st Jan. 1865	Thomas Hall. Samuel Bonser.
Certain improvements in mechanism or apparatus for lubricating the cylinders of "slashing" and "tapeing" machines, such machinery being employed in the sizing of cotton and other yarns.	466	18th Feb. 1865	Thomas Ogden.
An improved method of treating yarns or threads previously to the processes of dyeing or dressing.	490	22nd Feb. 1865	James Mallison.
Certain improvements in machinery or apparatus for drying "warps" of cotton and other fibrous substances (*after sizing.*)	889	29th March 1865	Richard Holroyd. Joseph Holroyd Bolton.
Dyeing and sizing cotton, silk, woollen and other yarns	1413	23rd May 1865	Isaac Holt. William Holt. James Holt. Joseph Maude.
Sizing machines for sizing yarns, beams or warps to be woven	1729	29th June 1865	David Mercer. Thomas Mercer. Jonathan Mercer. Joseph Mercer.
An improved sizing material to be employed for sizing or dressing yarns preparatory to weaving. (*Communicated by John Ulric Billwiller.*)	1906	21st July 1865	Edward Schaub.
Machinery or apparatus for sizing, drying and beaming yarns of cotton or other fibrous substances	2022	4th Aug. 1865	John Gaukroger. John Dodgeon.
Treating and printing threads employed in weaving (*Communicated by Stanislas Vigoureux.*)	2083	11th Aug. 1865	Richard Archibald Brooman.
Improvements in the means of fixing or attaching the bobbins of winding and other machines on to their spindles, which improvements are also applicable to other similar or analogous purposes, and to the detaching of railway carriages from trains whilst in motion. (*useful in warp machines.*)	2250	31st Aug. 1865	John Ward.
Manufacture of artificial gum, size or stiffening matter.	2810	1st Nov. 1865	John Sellars.

Subject-matter of Patent.	Number of Patent.	Date	Name of Patentee.
WEAVING, &c.—*continued.*			
Machinery or apparatus employed for sizing yarns -	2883	8th Nov. 1865	James Eastwood.
Certain improvements in sizing and dressing yarns	3010	23rd Nov. 1865	Nathaniel Greenhalgh. James Mallison.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*dressing.*) (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
A new or improved method of preparing esparto, alpha or mogador grasses or other similar vegetable substances, for spinning, weaving, and for substitution for hair and for other fibres now in use. (*see* "SPINNING.")	3156	8th Dec. 1865	Oliver Maggs. George Hedgecombe Smith.
A new method of and apparatus for regulating the tension of threads in weaving and other operations. (*warping.*) (*Communicated by Stanislas Vigoureux.*)	3236	14th Dec. 1865	Richard Archibald Brooman.
II.—Weaving Plain, Figured and Double Fabrics; Jacquards and Looms; Woven Fabrics.			
Looms for weaving - - - - -	43	6th Jan. 1865	John Alfred Castree.
Weaving ornamental fabrics - - - -	45	6th Jan. 1865	John Craw. James Macaulay.
The manufacture of a new thread for weaving and other uses. (*see* "SPINNING.") (*Communicated by Veran Sabran and Gaston Jessé.*)	212	25th Jan. 1865	Richard Archibald Brooman.
Certain improvements in looms for weaving -	293	2nd Feb. 1865	John Maynes.
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads, and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*driving looms.*) (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Improvements in and connected with jacquard apparatus for weaving.	329	6th Feb. 1865	William Cockburn
Looms for weaving - - - - -	377	10th Feb. 1865	Rowland Gibson Hayard.
An improved protector for the needles and cards used in jacquard machines.	429	15th Feb. 1865	William Collinson Ridings, sen^{r}.
An improved manufacture of barège stuffs - - (*Communicated by Edmond Dirson.*)	440	16th Feb. 1865	William Edward Gedge.
Circular box looms - - -	489	22nd Feb. 1865	John Keighley. Richard Shephard.
Certain improvements in scarfs and in the manufacture of the same. (*Communicated by Leon de Moses Pariente.*)	491	22nd Feb. 1865	Isaac Pariente.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Looms for weaving	494	22nd Feb. 1865	John Dodgeon. John Gaukroger. William Shackleton.
Certain improvements in looms for weaving	503	23rd Feb. 1865	Aaron Barker.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus employed therefor. (*broad looms.*)	563	28th Feb. 1865	David Chalmers.
Certain improvements in and applicable to looms weaving.	583	2nd March 1865	Samuel Brooks.
Looms for weaving	750	17th March 1865	James Bullough.
Weft stop motions for looms	759	18th March 1865	Edwin Pilling. John Harper.
Weaving ornamental fabrics (*shawls.*)	810	23rd March 1865	James Macaulay. Robert Watson.
Machinery and apparatus for indicating, selecting and reading in such cords of designs or patterns as are transferred and perforated on cards, papers or their substitutes, and for reproducing and repeating duplicates of such operations on such materials, for jacquard machines.	815	23rd March 1865	Duncan Mackenzie.
Machinery or apparatus employed in the manufacture of cloth and other fabrics	821	23rd March 1865	Joseph Lees. Moses Mellor.
Looms for weaving	824	23rd March 1865	George Henry Castree. John Alfred Castree.
Looms for weaving	845	25th March 1865	James Milton.
Looms for weaving	907	31st March 1865	Lang Bridge.
Looms for weaving	928	1st April 1865	Alfred William Pearce.
Looms for weaving	1032	11th April 1865	Archibald Turner
Certain improvements in looms for weaving	1061	13th April 1865	Christopher Turner. Thomas Room.
Certain improvements in looms for weaving	1070	17th April 1865	Mark Smith.
Certain improvements in looms for weaving	1086	19th April 1865	James Edward Hyde Andrew.
Jacquard and indexing machines	1261	5th May 1865	Joseph Wadsworth. Henry Dusset. James McMurdo.
Manufacture of a certain description of woven fabric called "turkish towelling."	1281	9th May 1865	James Gorton.
Jacquard machines	1298	10th May 1865	James Melvin.
Improvements in power looms for weaving and in apparatus connected therewith.	1307	11th May 1865	William Jamieson.
Apparatus employed in weaving brocaded and ornamental fabrics	1312	11th May 1865	Demas Ellis. Matthew Hillas.
An improved woven fabric	1316	12th May 1865	Thomas Smith. Henry James.
Certain improvements in looms for weaving	1417	24th May 1865	Thomas Calvert. David Montgomery.
Looms for weaving	1427	25th May 1865	David Welsh.
Certain improvements applicable to spinning, weaving and knitting machines. (*Communicated by Charles Arthur Radiguet and Jean Adolphe Lecène.*)	1440	25th May 1865	William Edward Newton.
Looms for weaving	1524	3rd June 1865	Thomas Forster. James Eckersley.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Printing threads employed in weaving (*Communicated by Stanislas Vigoureux.*)	1730	29th June 1865	Richard Archibald Brooman.
Looms for weaving	1743	30th June 1865	John Keighley.
Looms for weaving	1876	19th July 1865	Mark Knowles.
Weaving ornamental fabrics	1960	28th July 1865	William Cockburn.
Certain improvements in looms for weaving	1961	29th July 1865	Robert Clayton. James Raper. John Goulding.
Certain improvements in looms for weaving	2061	9th Aug. 1865	Thomas Ramsden Shaw.
Looms for weaving	2073	10th Aug. 1865	John Ingham. Henry Ingham. James Broadley.
Certain improvements in looms for weaving	2091	12th Aug. 1865	William Bullough.
Looms for weaving	2115	16th Aug. 1865	William Gadd. John Moore.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus connected therewith. (*winding cops.*) (*Communicated by David Chalmers.*)	2117	16th Aug. 1865	Flora M'DougallChalmers
Looms for weaving	2295	7th Sept. 1865	John Smith.
Looms for weaving	2395	20th Sept. 1865	Joseph Edmondson.
Certain improvements in looms for weaving	2596	9th Oct. 1865	Peter Todd. Joseph Holding.
Certain improvements in looms for weaving	2672	17th Oct. 1865	Edward Lord.
Looms for weaving	2811	1st Nov. 1865	Adrien Jackson. James Clough. Charles Ashley.
Shuttle motion for looms (*Communicated by Julius Schottenfels.*)	2836	3rd Nov. 1865	Frederic Tolhausen.
Looms for weaving	2843	3rd Nov. 1865	Arthur Heald.
Power looms for weaving	2947	16th Nov. 1865	Matthew Caton. Henry Holden.
Manufacture of shawls (*Communicated by Pierre Honoré Maillard.*)	2961	17th Nov. 1865	Richard Archibald Brooman.
Manufacture of endless cloths	2966	17th Nov. 1865	James Heywood Whitehead.
Improvements in machinery employed when weaving hair, and in preparing and treating hair for weaving. (*Communicated by Charles Bradley.*)	3066	29th Nov. 1865	George Tomlinson Bousfield.
Certain improvements in looms for weaving (*Communicated by Wilhelm Gminder.*)	3091	2nd Dec. 1865	Edward Scott.
Manufacture of shawls and similar ornamental weavings.	3145	6th Dec. 1865	William Houghton Clabburn.
Machinery or apparatus in looms for weaving	3152	7th Dec. 1865	Joseph Woollatt.
A new method of and apparatus for regulating the tension of threads in weaving and other operations. (*Communicated by Stanislas Vigoureux.*)	3236	14th Dec. 1865	Richard Archibald Brooman.
Looms for weaving	3307	21st Dec. 1865	William Edward Laycock.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
An improved method of and apparatus for simultaneously manufacturing or weaving two separate cloths at one and the same operation, on a common hand or power loom slightly modified for the purpose. (*Communicated by Gerber-Ulrich.*)	3311	22nd Dec. 1865	Léopold D'Aubreville.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*material for weaving chair bottoms.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*for weaving matting, sails, &c.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
Machinery for boring, turning and shaping articles of metal - - - - - (*crank axles of looms.*)	3362	29th Dec. 1865	William Harrison. Thomas Walker.
Certain improvements in looms for weaving - -	3365	29th Dec. 1865	Joseph John Harrison. Edward Harrison.
Certain improvements in looms for weaving - -	3366	29th Dec. 1865	Thomas Watson.
III.—Weaving Carpets, Velvets and other Pile and Terry Fabrics; Carpet Looms.			
The application and use of certain materials to be employed in the manufacture of carpets and hearth rugs - - - - -	7	2nd Jan. 1865	John Spencer. Noah Broomhead.
Certain improvements in looms and apparatus for weaving velvet-pile and terry-faced fabrics, and a certain mode of producing designs on such like fabrics.	153	18th Jan. 1865	Joseph Burch.
Manufacture of carpets and other terry and cut pile fabrics. (*see* "CEMENTED FABRICS.") (*Communicated by The American Waterproof Cloth Company.*)	1499	31st May 1865	William Edward Newton.
Manufacture of pile fabrics - - -	1519	2nd June 1865	William Gadd. John Moore.
Improvements in the manufacture of velvets, plushes and other pile fabrics, and in the machinery or apparatus connected therewith.	1937	26th July 1865	Jules Bélicard the younger.
Manufacture and ornamenting of carpets, rugs and other fabrics.	2181	25th Aug. 1865	Lemuel Clayton.
Improvements in the manufacture of velvet and in the apparatus employed therein. (*Communicated by Messieurs Fraisse-Brossard fils jeunes.*)	2204	28th Aug. 1865	Henri Adrien Bonneville.
A new kind of double faced carpet or tapestry with similar or different patterns on each face.	2792	30th Oct. 1865	Alexander Braquenié.
Power looms for weaving pile fabrics, such as "patent Axminster" carpeting.	3103	4th Dec. 1865	John Stewart Templeton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
IV.—Knitting; Lace Making; Stocking Frames; Warp Fabrics; Nets and Meshed Fabrics.			
Manufacture of looped fabrics in warp machinery -	117	13th Jan. 1865	William Wilkins.
New or improved machinery for the manufacture of wire and other netting. (*netting of threads.*) (*Communicated by Edmond Paul Henri Gondouin.*)	360	8th Feb. 1865	Richard Archibald Brooman.
Manufacture of lace in twist lace machines - -	566	28th Feb. 1865	James Hartshorn. William Redgate.
Improvements in the manufacture of lace or other fabrics made on bobbin net or twist lace machines, and in the machinery or apparatus employed therein.	608	4th March 1865	Henry Taylor.
Manufacture of lace or net in twist lace machines -	716	14th March 1865	John Wilkie.
Manufacture of stockings and other articles of hosiery.	725	15th March 1865	Henry Owen.
Manufacture of fabrics in lace machinery - -	801	22nd March 1865	William Clarke.
Manufacture of lace in twist lace machines - -	971	5th April 1865	Frederic Rainford Ensor.
Machinery for the manufacture of lace - - (*Communicated by Désiré Sival and Léon Sival.*)	1087	19th April 1865	Richard Archibald Brooman.
Manufacture of articles of lace or net fabric - -	1129	22nd April 1865	Charles James Keenan. John Alexander Keenan.
Manufacture of dress shirts and dresses made by means of the stocking frame.	1188	28th April 1865	Edward Moore.
Manufacture of elastic knitted or looped fabrics -	1275	9th May 1865	Robert Barlow Cooley.
Machinery or apparatus employed in circular knitting machines - - - - -	1397	20th May 1865	Edwin Attenborough. Samuel Mellor. George Blackburn.
Certain improvements applicable to spinning, weaving and knitting machines. (*Communicated by Charles Arthur Radiguet and Jean Adolphe Lecène.*)	1440	25th May 1865	William Edward Newton.
Knitting-machines - - - - - (*Communicated by Isaac Wixom Lamb.*)	1445	26th May 1865	William Clark.
Manufacture of lace in twist lace machines - -	1512	1st June 1865	Henry Mallet.
Twist lace machines - - - -	1723	28th June 1865	Richard Boot. John Coxon.
Knitting-machines - - - - (*Communicated by William Williams Clay.*)	1747	1st July 1865	George Davies.
Manufacture or production of bobbin net or twist lace made on bobbin net or twist lace machines.	1757	3rd July 1865	Stephen Bates.
Machinery for making lace - - - - (*Communicated by Alfred Masson.*)	2312	9th Sept. 1865	William Edward Newton.
Improvements in certain knitted fabrics and in the means for producing the same.	2718	21st Oct. 1865	Thomas Webb.
Knitting-machine needles - - - - (*Communicated by Isaac Wixom Lamb.*)	2960	17th Nov. 1865	William Clark.
Knitting-machines - - - - (*Communicated by Asa Sessions.*)	2983	20th Nov. 1865	Samuel Norris.
Manufacture of ornamental laces and fabrics in twist lace machinery.	3108	4th Dec. 1865	William Clarke.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
V.—Weaving Fringes, Ribbons, Producing Braid; Platting.			
Manufacture of driving bands or belts for machinery and other purposes - - -	300	3rd Feb. 1865	George Hurn. Daniel Hurn.
Manufacture of skirt borderings and linings to be applied to wearing-apparel. (*Communicated by Carl Spannagel.*)	361	8th Feb. 1865	William Staats.
Improvements in covered steel for crinoline skirts, and in the machinery for covering and uniting the same. (*Communicated by Oliver Rogers Burnham.*)	588	2nd March 1865	William Sparks Thomson.
An improved method of twisting threads - - (*Communicated by Désiré Sival and Léon Sival.*)	2147	19th Aug. 1865	Richard Archibald Brooman.
Ornamenting and protecting the edges of bed-quilts, counterpanes, toilet covers, carriage rugs and other similar coverings, by edging, binding or fringing by machinery - - -	2253	1st Sept. 1865	Robert Knowles. Joseph Lindley.
Ornamentation of fringes and trimmings - - (*see* "CEMENTED FABRICS.")	2280	5th Sept. 1865	Thomas Bird Bailey.
Machinery for weaving the covering of blind-cord and other tubular fabrics. (*Communicated by Isaac Emerson Palmer.*)	2681	17th Oct. 1865	Henry Edward Newton.
Shuttle motion for looms - - - - (*ribbon and brace looms.*) (*Communicated by Julius Schottenfels.*)	2836	3rd Nov. 1865	Frederic Tolhausen.
Manufacture of shawls - - - - (*Communicated by Pierre Honoré Maillard.*)	2961	17th Nov. 1865	Richard Archibald Brooman.
Manufacture of ornamental laces and fabrics in twist lace machinery. ("*grogram.*")	3108	4th Dec. 1865	William Clarke.
Improvements in the manufacture of trimmings and in the machinery employed therein.	3320	23rd Dec. 1865	William Smith.
VI.—Shuttles.			
Looms for weaving - - - - -	1032	11th April 1865	Archibald Turner.
Certain improvements in looms for weaving - -	2061	9th Aug. 1865	Thomas Ramsden Shaw.
Shuttles for weaving purposes - - -	2122	17th Aug. 1865	Abraham Akeroyd. Jonathan Lister.
Weft-winding machines both for winding on bobbins and cops, also for a shuttle to hold the cop when weaving.	2519	30th Sept. 1865	William Longbottom.
Machinery for weaving the covering of blind-cord and other tubular fabrics. (*Communicated by Isaac Emerson Palmer.*)	2681	17th Oct. 1865	Henry Edward Newton.
VII.—Temples, Pickers, Healds and Reeds.			
Improvements in healds for looms, and in machinery or apparatus for manufacturing and winding the same upon "shafts."	347	7th Feb. 1865	Alfred Augustus Larmuth.
Certain improvements in and applicable to looms for weaving.	583	2nd March 1865	Samuel Brooks.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEAVING, &c.—*continued.*			
Self-acting temples for looms	1142	24th April 1865	Charles Eastwood. George Eastwood.
Pickers for looms	1200	29th April 1865	George Pomeroy Dodge.
Looms for weaving	2073	10th Aug. 1865	John Ingham. Henry Ingham. James Broadley.
Certain improvements in looms for weaving	2091	12th Aug. 1865	William Bullough.
Certain improvements in looms for weaving	2672	17th Oct. 1865	Edward Lord.
Reeds for weaving cocoa-nut, jute and other fibres	2691	18th Oct. 1865	Thomas Catchpole.
Machinery for the manufacture of healds for looms for weaving	3028	25th Nov. 1865	Richard Thomas Hothersall. Samuel Cook. William Henry Hacking.
Pickers used in looms for weaving	3094	2nd Dec. 1865	Richard Edmondson.
A means or method of and apparatus to be employed for utilizing waste healds for weaving	3257	16th Dec. 1865	Francis Johnston. William Astley.
VIII.—Letting off and Taking-up Motion; Stopping Looms.			
Improved mechanism for giving intermittent or continuous revolving motion of different velocities, without the use of change wheels (*taking-up motion.*)	272	31st Jan. 1865	Thomas Hall. Samuel Bonser.
Certain improvements in looms for weaving (*stopping the take-up motion.*)	293	2nd Feb. 1865	John Maynes.
Looms for weaving (*letting off motion.*)	494	22nd Feb. 1865	John Dodgeon. John Gaukroger. William Shackleton.
Weft stop motions for looms	759	18th March 1865	Edwin Pilling. John Harper.
Looms for weaving	845	25th March 1865	James Milton.
Looms for weaving	907	31st March 1865	Lang Bridge.
Certain improvements in looms for weaving	1061	13th April 1865	Christopher Turner. Thomas Room.
Certain improvements in looms for weaving	1070	17th April 1865	Mark Smith.
Improvements in power looms for weaving and in apparatus connected therewith.	1307	11th May 1865	William Jamieson.
Certain improvements applicable to spinning, weaving and knitting machines. (*stopping.*) (*Communicated by Charles Arthur Radiguet and Jean Adolphe Lecène.*)	1440	25th May 1865	William Edward Newton.
Looms for weaving	1524	3rd June 1865	Thomas Forster. James Eckersley.
Looms for weaving	1803	7th July 1865	James Bullough.
Looms for weaving	2073	10th Aug. 1865	John Ingham. Henry Ingham. James Broadley.
Certain improvements in looms for weaving	2091	12th Aug. 1865	William Bullough.
Taking up motions of looms for weaving	2543	4th Oct. 1865	James Wadsworth. Thomas Hall. Samuel Bonser.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WEIGHING-MACHINES, SCALES, INDICATING WEIGHT.			
Improved apparatus for adjusting the weight of railway carriages and engines. (*Communicated by Johann Heinrich Ehrhardt.*)	216	25th Jan. 1865	Otto Gössell.
Improved apparatus for measuring the specific gravity of liquids. (*Communicated by Edward Payne.*)	448	16th Feb. 1865	John Fulleck Hearsey.
Certain improvements in platform weighing-machines.	757	18th March 1865	James M^{c}Connell.
An improved system of continuous self-acting and self-registering machinery for weighing grain, flour and other ponderable matters - - -	823	23rd March 1865	Thomas Roberts. Louis Luc.
An improved balance with index for weighing railway passengers' luggage.	1115	21st April 1865	Abraham Cohn Herrmann.
Hydrometers for ascertaining the strength of spirits and the specific gravity of fluids. (*Communicated by Claude Alphonse Valson.*)	1349	15th May 1865	Henri Adrien Bonneville.
Apparatus or means for ascertaining the quality and condition of grain and seed. (*Communicated by Christian Joseph Schmitz.*)	2098	14th Aug. 1865	William Bünger.
Apparatus for ascertaining specific gravities and the bulk of solids, and also for other similar uses.	2490	28th Sept. 1865	Alfred Mosley Bennett.
WHEELS FOR CARRIAGES, RAILWAY WHEELS; WHEEL TIRE, &c.			
A new method for removing or destroying the momentum of heavy bodies by means of an elastic machine or machines, so as to prevent injury and damage from concussion, applicable to ship cables, ship and fort armour, railway trains, tenders to pierheads and floating piers, gangways, breakwaters and other similar structures, also as a motive-power. (*Communicated by William Graham M'Ivor.*)	321	6th Feb. 1865	Clements Robert Markham.
Case hardening or converting partially into steel, articles of wrought or malleable iron. (*faces of malleable iron wheels.*) (*Partly communicated by Anthony Leonard Fleury.*)	393	11th Feb. 1865	Edwin Henry Newby.
Presses for blocking the tyres of railway and other wheels.	573	1st March 1865	William Holiday.
Casting steel railway-wheel tyres - - -	614	4th March 1865	Joseph Whitley.
Improvements in the manufacture of railway wheel tyres, and in the implements or tools employed in such manufacture.	665	9th March 1865	William Daniel Allen.
An improved rotary spader or digging machine for tilling land. (*Communicated by Cicero Comstock.*)	671	10th March 1865	Edwin Addison Phillips.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - - -	688	11th March 1865	Charles Middleton Kernot. Nathaniel Symons.
A new or improved machine for dressing and rounding the inner surfaces of felloes.	794	22nd March 1865	Hiram Smith Jacobs.
Traction engines - - - - - - (*travelling wheels.*)	863	27th March 1865	John Bruckshaw. William Scott Underhill.
Manufacture of steel tires for railway wheels - -	878	28th March 1865	Francis William Webb.
An improved application of steam power to locomotion on ordinary roads. (*Communicated by Alfred Taillendeau.*)	1002	8th April 1865	William Edward Gedge.
A new or improved compensating wheel to be used with locomotives, carriages and other vehicles on railway and tram roads, in conjunction with or without the wheels now used, in order to obtain at curves and other parts of the road a rolling instead of a sledging motion now effected by wheels in present use on railway and other tram roads.	1022	11th April 1865	James John Myers.
Improvements in carriage and other wheels and in connecting or fixing the said wheels to their axle-boxes.	1024	11th April 1865	Stephen Wright.
Wheels and the manner of applying the same to railway carriages for passengers' and goods' traffic, as also the leading wheels for locomotives.	1114	21st April 1865	William Day.
Construction of railway rails and wheels - -	1158	25th April 1865	John Townsend Bucknill.
Improvements in the manufacture of crossings for the permanent way of railways, and also in tyres for wheels.	1398	20th May 1865	Joseph Armstrong.
Machinery employed in the manufacture of hoops and tyres.	1425	25th May 1865	John Ramsbottom.
Manufacture of cast-steel railway tires - -	1426	25th May 1865	John Firth.
Improvements in making cast-steel railway tires, and in apparatus therefor.	1455	27th May 1865	John Martin Rowan.
Wheels for locomotive engines, railway carriages and other purposes. (*Communicated by Robert Elsdon.*)	1601	13th June 1865	John Henry Johnson.
Locomotive engines and railway carriages - -	1646	19th June 1865	George Smith the younger.
An improved system of wheels for railway carriages	1663	20th June 1865	Emile Dupont.
Improvements in steam carriages and in adapting wheels for common roads to railways. (*Communicated by Joseph Alphonse Loubat.*)	1821	10th July 1865	Richard Archibald Brooman.
Traction engines - - - - - (*Communicated by Alexander Keene Richards.*)	1836	11th July 1865	Morris Horsey Keene.
Manufacture of iron and steel - - - - (*rolling wheel tire.*) (*Communicated by Martin Dieudonné Henvaux.*)	1964	29th July 1865	Ephraim Sabel.
Improvements in the manufacture of hoops and tyres and in the machinery employed therein.	1975	31st July 1865	John Ramsbottom.
The improvement of the permanent way of railways and carriages for the same.	2227	30th Aug. 1865	James Cole Green.
Traction engines and other vehicles - - -	2234	30th Aug. 1865	Samuel Lawrence James.
Apparatus used for removing axle-boxes from wheels.	2269	4th Sept. 1865	Joseph Drabble.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
Treating, working or manipulating cast steel, for the manufacture of wheel-tires, armour plates or other articles requiring great hardness and tensile strength.	2277	5th Sept. 1865	Julien Grand.
A locomotive car - - - - - -	2344	13th Sept. 1865	Joseph Page Woodbury.
Improvements in railways and in the wheels for railways. (*Communicated by Alexander Skelton.*)	2408	21st Sept. 1865	Alfred Vincent Newton.
Improvements in the construction of railway plant to ensure the safety of passengers' lives in the event of accident or collision - - - -	2463	26th Sept. 1865	Charles Middleton Kernot. Nathaniel Symons.
Railway carriages and locomotives - - - (*Communicated by Henry Giffard.*)	2621	11th Oct. 1865	Michael Henry.
Manufacture of tyres for railway wheels - -	2654	14th Oct. 1865	William James Armitage. Fairfax Wooler. John Hodgson.
Improvements in wheels for common road carriages, in tyres for the same, and in machinery for bending the tyres.	2668	16th Oct. 1865	James Lamb Hancock.
Improvements in forging and swaging steel and iron wheel tyres, and in the apparatus or tools employed for that purpose.	2695	19th Oct. 1865	Josiah Penton.
Wheels for carriages and other vehicles - -	2708	20th Oct. 1865	Samuel Richard Rowe.
Improvements in the manufacture of wheels for railway carriages, and in the machinery to be employed therein.	2771	27th Oct. 1865	Thomas Greenwood.
Construction of wheels for engines and vehicles used on railways.	2860	6th Nov. 1865	Richard Christopher Mansell.
Casting hoops of steel suitable for making tyres -	2886	8th Nov. 1865	William Daniel Allen.
Improvements in the manufacture and treatment of railway bars, tyres and axles, also in the construction of furnaces, machinery and apparatus connected therewith.	3084	1st Dec. 1865	Thomas Weatherburn Dodds.
Certain improvements in the manufacture of tyres for railway wheels and in apparatus connected therewith.	3158	8th Dec. 1865	Richard Evan Price.
Naves and axletree boxes of carriage wheels - -	3210	12th Dec. 1865	Levi Lemon Sovereign.
Permanent way and wheels of railways - - (*Communicated by Mr. Gerard Christiaan Heyning.*)	3322	23rd Dec. 1865	Hector Auguste Dufrené.
WHEELS FOR MACHINERY; COG-WHEELS, PULLEYS, CAMS, &c.			
Construction, arrangement and mode of applying paddle-wheels for propelling boats or other vessels. (*Communicated by Hippolyte Salmon.*)	405	13th Feb. 1865	John Garrett Tongue.
An improved rotary spader or digging machine for tilling land. (*Communicated by Cicero Comstock.*)	671	10th March 1865	Edwin Addison Phillips.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
Apparatus for cutting pasteboard and other like boards. (*Communicated by Elizur Ely Clarke.*)	789	21st March 1865	William Clark.
Mechanism applicable to frame-filling machines for wooden matches, vestas and vesuvians.	1003	8th April 1865	Henry Joseph Simlick.
Machinery for cutting files - - - -	1013	8th April 1865	Thomas Turton.
Printing machinery - - - - -	1026	11th April 1865	David Payne.
Certain improvements in looms for weaving - -	1061	13th April 1865	Christopher Turner. Thomas Room.
Apparatus for shaping corks - - -	1065	15th April 1865	John M'Dowall.
Certain improvements in looms for weaving -	1070	17th April 1865	Mark Smith.
"Pulleys" used by brewers and others for lifting and lowering weights into and out of carts, waggons or trucks.	1091	19th April 1865	Fredric William Gilbert.
Machinery for cutting and dressing stones and other hard substances. (*Communicated by Gustavus Cuppers.*)	1093	19th April 1865	Maurice Vogl.
Machinery for moulding and making cores for moulding or casting metals.	1122	21st April 1865	Richard Canham.
Engines, machinery and implements employed in ploughing and tilling land.	1123	21st April 1865	Collinson Hall.
Digging machinery - - - - -	1124	22nd April 1865	Ormrod Coffeen Evans.
Improvements in motive-power machinery for cultivating land, part of which improvements is applicable to driving machinery generally -	1134	22nd April 1865	James Howard. Edward Tenney Bousfield.
Improvements in the manufacture of pig iron or foundry metal, and in making and treating castings of such metal. (*for wheels.*)	1208	1st May 1865	Henry Bessemer.
Straight line dividing engines and tools for regulating distances. (*detent wheel.*)	1245	4th May 1865	William Ford Stanley.
An improved method of and apparatus for moulding wheels. (*fly wheels, &c.*)	1488	30th May 1865	Luke Martin.
An improvement in steam-engine governors - (*Communicated by Estus Lamb and Henry Stephen Mansfield and Lyman Arnold Cook.*)	1561	7th June 1865	William Edward Newton.
Sewing-machines - - - - - (*Communicated by Louis Planer.*)	1572	9th June 1865	George Haseltine.
Lifts for transferring passengers, goods and heavy weights, from the lower to the upper floor of hotels, club houses and other buildings, with greater safety than heretofore.	1822	10th July 1865	David Cowan.
An improvement in the mode of uniting different metals, such as iron and copper or alloys, to form compound metallic castings. (*adapted to wheels, frames, &c.*)	1885	19th July 1865	George Nimmo.
Means or apparatus for producing friction or adhesion between pulleys, rollers and the like, and cords, bands, belts or chains passed over or round them.	1927	25th July 1865	Martyn John Roberts.
Construction of steam-engines - -	2062	9th Aug. 1865	Henry Cartwright.
Pulleys for raising and lowering heavy bodies -	2333	12th Sept. 1865	George Tangye. Joseph Jewsbury.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WHEELS, &c.—*continued.*			
Construction of presses for hay, cotton, hemp and other substances. (*gear wheels.*) (*Communicated by Thomas Gannon and Thomas Bolton Webster.*)	2454	25th Sept. 1865	Alfred Vincent Newton.
Apparatus for raising liquids - - -	2632	12th Oct. 1865	Jean Ursin Bastier.
Clod crushers and chain harrows - -	2634	12th Oct. 1865	William Colborne Cambridge.
Improvements in sewing machinery for using waxed thread. (*constructing feed wheels.*) (*Communicated by Thomas John Halligan.*)	2748	24th Oct. 1865	Alfred Vincent Newton.
Apparatus for moulding toothed or other wheels or pullies or portions of circles, for casting.	2751	25th Oct. 1865	George Lamb Scott.
Ships' and pulley blocks for general purposes -	2884	8th Nov. 1865	Thomas Westley. Walter Bibby.
Apparatus for raising, lowering, moving or transporting heavy bodies. (*pulley blocks.*)	2931	14th Nov. 1865	Thomas Aldridge Weston. James Tangye. Richard Chapman.
Means of connecting drums or pulleys with their shafts or drivers. (*Communicated by Leverett Homer Olmsted.*)	2933	14th Nov. 1865	William Clark.
Machinery for the manufacture of moulds for casting metallic wheels. (*toothed wheels and pulleys.*)	2959	17th Nov. 1865	Thomas Joseph Perry.
Improvements in the bearings of certain wheels and pulleys applicable to various kinds of machinery.	3231	14th Dec. 1865	William Winter.
WINDING, REELING AND BALLING YARN AND THREAD.			
Machinery for preparing, spinning, doubling and winding wool, mohair, alpaca, silk, flax, cotton or other fibrous substances - - -	130	16th Jan. 1865	Jabez Bunting Farrar. John Hirst.
Improvements in the manufacture of textile fabrics and in the machinery or apparatus employed therefor. (*winding cops for weaving.*)	563	28th Feb. 1865	David Chalmers.
Machinery for winding yarns or threads on to quills, spools and bobbins.	901	30th March 1865	Archibald Turner.
Apparatus used in the winding and rewinding of silk and other fabrics. (*see* "FINISHING.")	921	1st April 1865	William Kilbey.
Improvements in silk winding machines, part of the said improvements being also applicable to cleaning and doubling machines.	1633	16th June 1865	William Trevor Wanklyn.
Straight eye clearing guides or cleaners, for winding silk, cotton or other fibrous substances - -	1872	19th July 1865	John Batkin Whitehall. Thomas Pillings.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDING, &c.—*continued.*			
Improvements in the manufacture of textile fabrics and in the machinery or apparatus connected therewith. (*winding cops; weaving.*) (*Communicated by David Chalmers.*)	2117	16th Aug. 1865	Flora M^{c}Dougall Chalmers.
Improvements in sewing-machines and in winders for sewing-machines - - - -	2165	23rd Aug. 1865	Henry Willis. George Rice.
Improvements in the means of fixing or attaching the bobbins of winding and other machines on to their spindles, which improvements are also applicable to other similar or analogous purposes, and to the detaching of railway carriages from trains whilst in motion.	2250	31st Aug. 1865	John Ward.
Machinery for winding yarn cops - - -	2297	7th Sept. 1865	William Oldham.
Improvements in the winding of knitting cotton and in the apparatus employed therefor.	2311	9th Sept. 1865	Henry Shanks.
Bobbins or spools used in spinning and winding yarns and threads. (*Communicated by Charles Reynolds.*)	2368	16th Sept. 1865	Jehiel Keeler Hoyt.
Weft winding machines both for winding on bobbins and cops, also for a shuttle to hold the cop when weaving.	2519	30th Sept. 1865	William Longbottom.
An improvement in machinery for spinning, twisting, doubling and winding yarns or threads. (*Communicated by Arsene Luyssen and Gaspard Andrieux.*)	2538	3rd Oct. 1865	William Edward Newton.
"Pirn" winding machines for winding flax, cotton and other fibrous materials.	2588	7th Oct. 1865	Joseph Kirby.
Improvements in machinery or apparatus known as "roving," "intermediate," "slubbing" and "throstle" frames and "doublers," and also in winding machines used for preparing, spinning and winding cotton, wool, flax, silk and other fibrous substances.	2713	20th Oct. 1865	William Sumner.
Machinery or apparatus for reeling silk, cotton or other fibrous threads in the form of skeins.	2826	2nd Nov. 1865	Enoch Rushton.
Means or apparatus for preparing, spinning, twisting, doubling or winding cotton, wool, flax or other fibrous material.	2866	7th Nov. 1865	Martyn John Roberts.
Improvements in winding machinery, which improvements are partly applicable to machinery for spinning and doubling.	3116	5th Dec. 1865	John Jackson Ashworth.
Improvements in sewing-machine shuttles, and in the winding or reeling of the thread employed with them.	3205	12th Dec. 1865	Marc Koltz.
Machinery for spooling cotton and other yarns and threads.	3376	30th Dec. 1865	Robert Smith.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDOW BLINDS, SUN BLINDS, FIRE-SCREENS.			
Apparatus for painting venetian blinds and similar articles - - - - - - - -	170	20th Jan. 1865	Donald Munro. Thomas Wright.
An improved window-blind cord check - -	195	23rd Jan. 1865	Elton Templemore.
Improvements in ventilating blinds or screens, and in means of ventilating ships and vessels.	433	15th Feb. 1865	Charles Lungley.
Certain improvements in venetian blinds for carriages, and which said improvements are also applicable to certain blinds or screens for other purposes.	676	10th March 1865	Thomas Startin.
Ventilating blinds - - - - - -	879	28th March 1865	Henry Welchman King.
Manufacture of wire gauze dish covers, plate covers, window blinds, fire guards and meat safes - -	1401	22nd May 1865	David Powis. Henry Brittain the younger.
Improvements in the construction of rollers for window blinds and in apparatus connected therewith.	1847	14th July 1865	William Meddowcroft.
The use and application of paper, printed or otherwise ornamented with water colors, for covering floors and other analagous purposes, as a substitute for carpets and oil cloths, and of an improved coating or varnish to be applied to the same, to protect its surface from injury and wear. (*and for covering window shades.*)	1873	19th July 1865	Anson Henry Platt.
Means or apparatus for producing friction or adhesion between pulleys, rollers and the like, and cords, bands, belts or chains passed over or round them. (*for roller blinds.*)	1927	25th July 1865	Martyn John Roberts.
Improvements in the ornamentation of glass and in the applications of glass so ornamented. (*Communicated by The Society Randal Cresswell, Alfred Tavernier and Edouard Dodé.*)	2038	5th Aug. 1865	John Henry Johnson.
Sun-shades or canopies for perambulators and other wheeled carriages. (*see* "UMBRELLAS.")	2389	19th Sept. 1865	Henry Lloyd.
Certain improvements in window fittings - -	2603	10th Oct. 1865	William Cooke.
Machinery for weaving the covering of blind-cord and other tubular fabrics. (*Communicated by Isaac Emerson Palmer.*)	2661	17th Oct. 1865	Henry Edward Newton.
Improvements in rollers for roller blinds, and in roller-blind furniture, and in fixing roller blinds at any required height.	2696	19th Oct. 1865	Joseph Everard.
Window-blinds and screens - - - - -	2699	19th Oct. 1865	John Ballard.
An improved method of hanging or suspending blinds from blind rollers, and improvements in the manufacture of such rollers.	2732	21st Oct. 1865	Samuel Parkes Matthews.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances, to various purposes for which common glue or gelatine cannot now be used. (*transparencies for fire screens.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDOW BLINDS, &c.—*continued.*			
Obtaining and employing continuous lengths of tanned leather for various useful purposes - (*cords for roller blinds.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.
WINDOWS AND SASHES; WINDOW-FRAMES AND SHUTTERS.			
Improvements in producing and finishing photographs and photographic transparencies on paper and other suitable substances, and in the machinery employed therein - - - (*for windows.*)	56	7th Jan. 1865	Barrowclough Wright Bentley. William Henry Bailey.
Window safes for the protection of property - -	326	6th Feb. 1865	Robert Shaw.
Fastenings for doors, windows, drawers and other like purposes - - - - -	369	9th Feb. 1865	George Edward Meek. William Howes Howes.
Certain improvements in sash fastenings, and which said fastenings are also applicable to other useful purposes.	482	21st Feb. 1865	William Hitchin.
Construction of fastenings or bolts for window sashes and other purposes.	672	10th March 1865	William Smith.
Improvements in the manufacture of metallic bedsteads, which improvements are also applicable to the manufacture of other metallic articles. (*window bars.*)	699	13th March 1865	James Atkins.
Means of covering railway trucks, vans and other carriages.	1090	19th April 1865	William Riddell.
Indicators and fastenings for water-closets and other purposes.	1096	20th April 1865	Henry Kindon Taylor.
Invalid carriages - - - - (*Communicated by Auguste Quitzow.*)	1120	21st April 1865	Henry Edward Newton.
Certain improvements in window sashes and frames, whereby the sashes may be removed and applied at pleasure, part of which improvements are also applicable to sashes as ordinarily constructed.	1273	8th May 1865	John Casey.
An improved system of telegraphic communication on railways, parts of which invention are also applicable to other telegraphic purposes.	1543	5th June 1865	Alice Isabel Lucan Gordon.
Fastenings for doors, windows, drawers and other like purposes - - - - -	1578	9th June 1865	George Edward Meek. William Howes Howes.
Improved means or apparatus to be applied to doors and windows for the purpose of supporting or maintaining them in any required position when open, and in securing them when shut.	1581	10th June 1865	Arthur Hamilton Gilmore.
Improved arrangements for opening and shutting carriage windows - - - - -	1613	14th June 1865	Sidney Courtauld. Charles Wilkins Atkinson.
Improvements in or applicable to railway and other carriage windows.	1718	28th June 1865	John Kay Farnworth.
Apparatus for preventing the opening of sash windows from the outside, and for the secure fastening thereof.	1726	28th June 1865	Edwin Reynolds.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WINDOWS, &c.—*continued.*			
Apparatus for cleaning windows	1907	21st July 1865	Charles Gardner.
An improved fastening or lock	2003	2nd Aug. 1865	Richard Bailey. Joseph Eagland.
Improvements in the construction of railway carriages and in railway breaks and signals, part of which is applicable to marine purposes	2005	2nd Aug. 1865	William Henry Petitjean. Edward McNally.
An improved mode of retaining and preventing the vibration of sliding windows used in dwellings and in railway and other vehicles, and for an improved apparatus for effecting the said purposes	2232	30th Aug. 1865	Thomas Wrigley. Marcus Brown Westhead.
Apparatus for cleaning the outsides of windows from the interior.	2243	31st Aug. 1865	George Smeaton.
Apparatus used in opening and closing carriage and other windows.	2319	9th Sept. 1865	John Pennington.
An invention having reference to windows or the sashes thereof.	2349	13th Sept. 1865	Sigourney Wales.
Certain improvements in window fittings	2603	10th Oct. 1865	William Cooke.
Improvements in rules for measuring, and in other instruments or articles requiring to be adjusted or disposed at various angles. (*shutters.*)	2613	10th Oct. 1865	Arthur Nicholls.
Greenhouses	2684	18th Oct. 1865	Thomas Hungate Preston Dennis.
Improved apparatus to be fitted to windows when cleaning, painting or otherwise.	2727	21st Oct. 1865	Joseph William Lea.
Suspending or supporting window sashes and sliding shutters.	2734	23rd Oct. 1865	Henry Newman.
Ventilators for windows and other like openings	2799	31st Oct. 1865	David Blair White.
Apparatus for raising and lowering the windows of railway and other carriages and other windows.	2816	1st Nov. 1865	John Kay Farnworth.
Improved means or apparatus to be applied to doors and windows, for the purpose of supporting or maintaining them in any required position when open, and in securing them when shut.	2819	1st Nov. 1865	Arthur Hamilton Gilmore.
A mode or modes of inserting glass or other transparent plates in the fabric of umbrellas or in other pliant fabrics. (*Communicated by Erasmus Allington Pond, Mark Staples Richardson and Edmund Alonzo Morse.*)	2880	8th Nov. 1865	John Henry Johnson.
An improved sash fastening for windows	2997	21st Nov. 1865	William Parsons.
Certain improvements in the manufacture of folding shutters.	3194	11th Dec. 1865	John Goddard.
Construction and mode of hanging window-sashes	3326	23rd Dec. 1865	Richard May Marigold. Samuel Fitzjohn.
Obtaining and employing continuous lengths of tanned leather for various useful purposes (*window and shutter lines.*)	3334	23rd Dec. 1865	George Hurn. Daniel Hurn.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WIRE-WORKING; WIRE-ROPES; TELEGRAPH CABLES.			
Coverings of telegraphic conductors and cables -	98	12th Jan. 1865	John Fuller.
Manufacture of crinoline skirts - - -	108	13th Jan. 1865	Joseph Knight.
Improvements in rail and tramways, in laying electric telegraph wires, and in compositions for insulating the same. (*Communicated by Jean Arnaud Emile Laloubère.*)	269	31st Jan. 1865	Richard Archibald Brooman.
Improvements in healds for looms, and in machinery or apparatus for manufacturing and winding the same upon "shafts."	347	7th Feb. 1856	Alfred Augustus Larmuth.
New or improved machinery for the manufacture of wire and other netting. (*Communicated by Edmond Paul Henri Gondouin.*)	360	8th Feb. 1865	Richard Archibald Brooman.
A new or improved insulating material for telegraphic and other purposes, together with an improvement in protecting telegraph wires, especially applicable to submarine and subterranean telegraphs. (*Communicated by Jules Erckmann.*)	362	9th Feb. 1865	William Alfred Marshall.
Improvements in covered steel for crinoline skirts, and in the machinery for covering and uniting the same. (*Communicated by Oliver Rogers Burnham.*)	588	2nd March 1865	William Sparks Thomson.
Constructing strained wire fences - - -	592	2nd March 1865	Robert Johnson.
An improvement in covered springs for clothing and in means for manufacturing the same, applicable also to other purposes.	623	6th March 1865	Timothy Sheldon Sperry.
An improved mode of pointing or tapering the ends of metallic rods or wires, applicable to the manufacture of pins, needles, and other articles where points or tapered ends are required. (*Communicated by Henri Cauderay.*)	976	6th April 1865	Edwin Henry Newby.
Improvements in the construction of submarine telegraph cables, and in the mode of submerging or laying them in the water. (*Communicated by Jean Lucien Arman.*)	1031	11th April 1865	William Edward Newton.
Machinery or apparatus for tapering, pointing, or reducing wires or rods for spindles, hatchel teeth, pins for dresses, and similar articles.	1363	16th May 1865	Chauncey Orrin Crosby.
Manufacture of wire gauze dish covers, plate covers, window blinds, fire guards, and meat safes -	1401	22nd May 1865	David Powis. Henry Brittain the younger.
Annealing pots and saucers for annealing iron and steel wire, sheet metal and other articles.	1480	30th May 1865	John Hibell.
An improved method of submerging telegraphic cables.	1544	5th June 1865	James Kennedy.
Compounds for waterproofing and insulating purposes. (*protecting wires.*)	1962	29th July 1865	Frederick Augustus Abel.
Improvements in the mode or method of preparing materials for, and in the manufacture of submarine telegraphic cables, the same being generally applicable for other purposes.	2025	4th Aug. 1865	Frederick George Mulholland.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WIRE, &c.—*continued.*			
Construction of submarine telegraph cables -	2088	11th Aug. 1865	Henry Robert Guy.
Machinery to be used in the manufacture of telegraph cables.	2155	21st Aug. 1865	Fleeming Jenkin.
Improvements in the construction of electric telegraph cables and in the preparation of telegraph wires.	2161	22nd Aug. 1865	Charles Marsden.
An improved furnace for annealing iron and steel wire or rods.	2166	23rd Aug. 1865	John Howard Scott.
Submarine electric telegraph cables - -	2209	28th Aug. 1865	Stopford Thomas Jones.
Improvements in electric telegraph cables, and in transmitting signals therethrough.	2213	28th Aug. 1865	William Peter Piggott.
Improvements in the manufacture of rope, cordage, yarn, wire rope, and other such like twisted and plaited, fabrics, and in the machinery employed therein - - - - - - -	2225	30th Aug. 1865	Thomas Cope. William Guest.
Improvements in covering submarine telegraph cables, and in the machinery and means employed for paying out or hauliug in the same.	2326	11th Sept. 1865	Samuel Inkpen.
Improvements in constructing and insulating telegraphic conductors, and in apparatus connected therewith.	2332	12th Sept. 1865	John Macintosh.
Construction of submarine telegraph cables - -	2341	13th Sept. 1865	John Oliver Chapman Phillips.
Manufacturing wire conductors for electro-telegraphic purposes.	2416	22nd Sept. 1865	William Boggett.
Certain improvements in telegraphic cables - -	2509	30th Sept. 1865	James Austin Mee.
Construction of submarine telegraph cables - (*Communicated by Claude Ernest Lami de Nozan.*)	2530	3rd Oct. 1865	Henri Adrien Bonneville.
Improvements in submarine electric telegraph cables and in apparatuses connected therewith.	2605	10th Oct. 1865	François Thierry Hubert.
Submarine telegraphy - - - - -	2612	10th Oct. 1865	John Fletcher Wiles.
The improvement of the means of and apparatus for laying submarine electrical telegraphic wires, lines, cables or other contrivances of a like sort.	2670	16th Oct. 1865	Reinhold Edward Kaulbach.
Machinery for the manufacture of fish hooks -	2673	17th Oct. 1865	Albert Fenton.
Testing and working submarine electric telegraph wires.	2765	26th Oct. 1865	Willoughby Smith.
Plating or combining gold, platinum and other metals or their alloys. (*plating wire.*)	2842	3rd Nov. 1865	Edward John Northwood.
Improvements in submarine electric telegraph cables, and in machinery employed in the manufacture and submergence thereof - -	2941	15th Nov. 1865	Arthur Wells. Walter Hall.
Improvements in the construction of and in the method of laying submarine electric cables.	2948	16th Nov. 1865	John De la Haye.
Construction of wire conductors for electro-telegraphic purposes.	3180	9th Dec. 1865	William Boggett.
Manufacturing and laying down submarine telegraphic cables.	3192	11th Dec. 1865	Theophilus Berrens.
Construction of wire conductors for electro-telegraphic purposes.	3299	21st Dec. 1865	William Boggett.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WIRE, &c.—*continued.*			
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for coating wire and ribbon.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.
Manufacture of electric conductors insulated with india-rubber.	3347	27th Dec. 1865	Hugh Adams Silver.
Construction of telegraphic cables or conductors -	3357	28th Dec. 1865	Cromwell Fleetwood Varley.
WOOD AND VENEERS; ARTIFICIAL WOOD.			
Preparing or treating wood and other vegetable fibrous materials for the manufacture of pulp for paper. (*Communicated by Zéphirin Gaspard Alexandre Nathan Pétrone Orioli, Amable Alfred Fredet and Pierre Amable Henri Matussière.*)	80	10th Jan. 1865	William Clark.
Machinery or apparatus for planing and moulding or otherwise shaping wood - - -	143	17th Jan. 1865	John Robinson. John Smith.
Socks, soles of feet protectors, to be used loose in boots and shoes, or affixed thereto - - (*of wood.*)	906	31st March 1865	John Poole. Thomas Brown.
Machinery or apparatus for cutting scrolls, frets and filigree work.	926	1st April 1865	James Kennan.
Improvements in taking impressions from the grain of wood, and in transferring the same on to various surfaces - - - - (*and for decorating wood.*)	1117	21st April 1865	William Scarratt. William Dean.
Machinery for cutting dovetails for joiners' work -	1671	21st June 1865	William Roberts.
New or improved compositions in imitation of ivory and woods, to be employed in the manufacture of umbrella tips, umbrella and walking stick handles, and other useful and ornamental purposes - - - - - - -	1682	23rd June 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Staining and graining woods - - -	1851	14th July 1865	John Morrough Murphy. James Morrough Murphy.
An improved process for rendering wood incombustible.	1900	21st July 1865	Louis Alphonse Maurice Chaulin.
An improved mode of and apparatus for drying timber, grain and other marketable products. (*Communicated by Henry Bulkley.*)	2127	17th Aug. 1865	Alfred Vincent Newton.
An improved method or process for ornamenting walls and other surfaces of buildings. (*covering with veneers.*) (*Communicated by Carl Friedrich Günter.*)	2138	18th Aug. 1865	George Howard.
Ornamenting and surfacing veneers and other articles of wood.	2279	5th Sept. 1865	Thomas Thompson Ponsonby.

Subject-matter of Patent.	Number of Patent.	Date.	Name of Patentee.
WOOD, &c.—*continued.*			
Machinery for making casks, barrels and other wooden vessels of capacity.	2426	22nd Sept. 1865	James Davidson.
An improved liquid composition for cleansing, scouring and bleaching textile animal, mineral and vegetable substances - - - - (*cleansing wood.*)	2440	23rd Sept. 1865	Gustave Emile Rolland. Emile Léon Rolland.
Machinery or apparatus for the manufacture of wooden spills.	2577	6th Oct. 1865	Thomas Machin.
Rendering wood for building and other purposes non-combustible or non-inflammable.	2625	11th Oct. 1865	William Bull.
Apparatus for splitting and preparing cane -	2717	20th Oct. 1865	Rémy Biessy.
An improved process for bending or arching wood - (*Communicated by Louis Parrabère.*)	2723	21st Oct. 1865	William Edward Gedge.
Preparing the surfaces of paper, leather, woven and other fabrics and substances, for receiving photographic pictures, engravings, lithographs and prints, and for rendering such substances fire and water-proof. (*surfacing wood.*) (*Communicated by William Gibson.*)	2891	9th Nov. 1865	William Edward Newton.
Manufacture of embossed wood - - - (*Communicated by Henry May and Henry Taylor Blake.*)	2895	10th Nov. 1865	Alfred Vincent Newton.
An improved method or process for producing paper makers' pulp from cane, bamboo and other analogous substances. (*Communicated by Charles Heaton.*)	2922	13th Nov. 1865	William Robert Lake.
Machinery for cutting mouldings in wood - - (*Communicated by John Bartlett Winslow.*)	3040	27th Nov. 1865	William Edward Newton.
Improved machinery to be used in the manufacture of paper. (*from wood.*) (*Communicated by Heinrich Voelter.*)	3041	27th Nov. 1865	William Edward Newton.
Machinery or tools for cutting wood or other substances. (*moulding-machines.*)	3188	9th Dec. 1865	William Wilson Hulse.
New or improved compositions in imitation of ivory and wood, to be employed in the manufacture of umbrella tips, umbrella and walking-stick handles, and other useful and ornamental purposes - - - - - -	3310	22nd Dec. 1865	Michael Dietrich Rosenthal. Solomon Gradenwitz.
Preparation of glue or gelatine so as to render it insoluble in water, and applicable by the admixture of other substances to various purposes for which common glue or gelatine cannot now be used. (*for veneering.*) (*Communicated by Henry Wurtz.*)	3325	23rd Dec. 1865	William Edward Newton.

For Sawing Wood, *see* "CUTTING."
For Preserving Timber, *see* "PRESERVING WOOD."

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